

## Full Power Mode

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
|                 | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| TX Channel      | 824.2                     | 836.4 | 848.8 |                           | 824.2                     | 836.4 | 848.8 |                           |
| Frequency (MHz) | 32.05                     | 32.11 | 32.01 | 33.00                     | 23.05                     | 23.11 | 23.01 | 24.00                     |
| GSM 1 Tx slot   | 32.00                     | 32.09 | 31.95 | 33.00                     | 23.00                     | 23.09 | 22.95 | 24.00                     |
| GPRS 1 Tx slot  | 29.92                     | 30.05 | 29.93 | 31.00                     | 23.92                     | 24.05 | 23.93 | 25.00                     |
| GPRS 3 Tx slots | 28.11                     | 28.23 | 28.00 | 29.50                     | 23.85                     | 23.97 | 23.74 | 25.21                     |
| GPRS 4 Tx slots | 26.03                     | 26.07 | 25.98 | 27.00                     | 23.03                     | 23.07 | 22.96 | 24.00                     |
| EDGE 1 Tx slot  | 25.41                     | 25.55 | 25.50 | 27.00                     | 16.41                     | 16.55 | 16.50 | 18.00                     |
| EDGE 2 Tx slots | 24.09                     | 24.22 | 24.18 | 26.00                     | 18.09                     | 18.22 | 18.18 | 20.00                     |
| EDGE 3 Tx slots | 22.01                     | 22.04 | 21.97 | 23.50                     | 17.75                     | 17.78 | 17.71 | 19.24                     |
| EDGE 4 Tx slots | 19.53                     | 19.69 | 19.59 | 21.00                     | 16.53                     | 16.69 | 16.59 | 18.00                     |

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
|                 | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| TX Channel      | 1859.2                    | 1880  | 1909.8 |                           | 1859.2                    | 1880  | 1909.8 |                           |
| Frequency (MHz) | 28.40                     | 28.50 | 28.43  | 30.00                     | 19.40                     | 19.50 | 19.43  | 21.00                     |
| GSM 1 Tx slot   | 28.37                     | 28.46 | 28.41  | 30.00                     | 19.37                     | 19.46 | 19.41  | 21.00                     |
| GPRS 1 Tx slot  | 26.18                     | 26.25 | 26.15  | 27.00                     | 20.18                     | 20.25 | 20.15  | 21.00                     |
| GPRS 3 Tx slots | 24.34                     | 24.41 | 24.34  | 25.50                     | 20.08                     | 20.15 | 20.08  | 21.24                     |
| GPRS 4 Tx slots | 22.44                     | 22.49 | 22.46  | 23.50                     | 19.44                     | 19.49 | 19.46  | 20.50                     |
| EDGE 1 Tx slot  | 25.55                     | 25.63 | 25.60  | 26.00                     | 16.55                     | 16.63 | 16.60  | 17.00                     |
| EDGE 2 Tx slots | 23.77                     | 23.92 | 23.89  | 25.50                     | 17.77                     | 17.92 | 17.89  | 19.50                     |
| EDGE 3 Tx slots | 21.87                     | 21.98 | 21.82  | 23.00                     | 17.61                     | 17.72 | 17.56  | 18.74                     |
| EDGE 4 Tx slots | 19.85                     | 19.91 | 19.88  | 20.50                     | 16.85                     | 16.91 | 16.88  | 17.50                     |

| Band            |                    | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| TX Channel      |                    | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel      |                    | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4468  |                           |
| Frequency (MHz) |                    | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99     | AMR 12.2Kbps       | 22.07    | 22.19 | 22.07  | 24.00                     | 22.47    | 22.62  | 22.49  | 24.00                     | 22.23   | 22.28 | 22.21 | 24.00                     |
| 3GPP Rel 99     | RMC 12.2Kbps       | 22.18    | 22.23 | 22.13  | 24.00                     | 22.43    | 22.68  | 22.62  | 24.00                     | 22.25   | 22.39 | 22.26 | 24.00                     |
| 3GPP Rel 6      | HSDPA Subtest-1    | 21.15    | 21.35 | 21.37  | 23.00                     | 21.44    | 21.61  | 21.62  | 23.00                     | 21.07   | 21.46 | 21.35 | 23.00                     |
| 3GPP Rel 6      | HSDPA Subtest-2    | 21.45    | 21.35 | 21.33  | 23.00                     | 21.63    | 21.61  | 21.46  | 23.00                     | 21.35   | 21.19 | 21.30 | 23.00                     |
| 3GPP Rel 6      | HSDPA Subtest-3    | 20.77    | 20.84 | 20.80  | 22.50                     | 21.11    | 21.11  | 21.05  | 22.50                     | 20.87   | 20.72 | 20.69 | 22.50                     |
| 3GPP Rel 6      | HSDPA Subtest-4    | 20.75    | 20.89 | 20.53  | 22.50                     | 21.08    | 21.22  | 20.97  | 22.50                     | 20.76   | 20.98 | 20.83 | 22.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 21.31    | 21.58 | 21.29  | 23.00                     | 21.63    | 21.76  | 21.64  | 23.00                     | 21.28   | 21.60 | 21.26 | 23.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 21.23    | 21.44 | 21.45  | 23.00                     | 21.56    | 21.67  | 21.77  | 23.00                     | 21.17   | 21.46 | 21.43 | 23.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 20.62    | 20.96 | 20.90  | 22.50                     | 21.23    | 21.36  | 21.19  | 22.50                     | 20.66   | 20.98 | 20.89 | 22.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 20.83    | 21.08 | 20.96  | 22.50                     | 21.21    | 21.36  | 21.19  | 22.50                     | 20.80   | 21.02 | 20.67 | 22.50                     |
| 3GPP Rel 6      | HSUPA Subtest-1    | 21.31    | 21.37 | 21.14  | 23.00                     | 21.45    | 21.61  | 21.59  | 23.00                     | 21.09   | 21.28 | 21.00 | 23.00                     |
| 3GPP Rel 6      | HSUPA Subtest-2    | 19.47    | 19.12 | 19.17  | 21.00                     | 19.56    | 19.51  | 19.47  | 21.00                     | 19.29   | 19.10 | 19.25 | 21.00                     |
| 3GPP Rel 6      | HSUPA Subtest-3    | 20.11    | 20.17 | 20.21  | 22.00                     | 20.47    | 20.50  | 20.43  | 22.00                     | 20.09   | 20.14 | 20.10 | 22.00                     |
| 3GPP Rel 6      | HSUPA Subtest-4    | 19.23    | 19.26 | 19.17  | 21.00                     | 19.55    | 19.41  | 19.51  | 21.00                     | 19.24   | 19.16 | 19.34 | 21.00                     |
| 3GPP Rel 6      | HSUPA Subtest-5    | 21.50    | 21.72 | 21.62  | 23.00                     | 21.65    | 21.72  | 21.84  | 23.00                     | 21.38   | 21.46 | 21.50 | 23.00                     |



| Band 2          |            |         |           |                      |                       |                       |                    |          |  |
|-----------------|------------|---------|-----------|----------------------|-----------------------|-----------------------|--------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power High Ch / Freq. | Power High Ch / Freq. | Turn-up time (sec) | MFR (dB) |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |
| 20              | QPSK       | 1       | 0         | 22.82                | 22.87                 | 22.75                 |                    |          |  |
| 20              | QPSK       | 1       | 49        | 22.82                | 22.77                 | 22.84                 | 24                 | 0        |  |
| 20              | QPSK       | 1       | 99        | 22.82                | 22.89                 | 22.84                 |                    |          |  |
| 20              | QPSK       | 50      | 0         | 21.81                | 21.87                 | 21.79                 |                    |          |  |
| 20              | QPSK       | 50      | 24        | 21.77                | 21.82                 | 21.84                 |                    |          |  |
| 20              | QPSK       | 50      | 50        | 21.76                | 21.80                 | 21.79                 | 23                 | 1        |  |
| 20              | QPSK       | 100     | 0         | 21.79                | 21.85                 | 21.85                 |                    |          |  |
| 20              | 16QAM      | 1       | 0         | 21.84                | 21.84                 | 21.72                 |                    |          |  |
| 20              | 16QAM      | 1       | 49        | 21.89                | 21.94                 | 21.87                 | 23                 | 1        |  |
| 20              | 16QAM      | 1       | 99        | 21.77                | 21.86                 | 21.76                 |                    |          |  |
| 20              | 16QAM      | 50      | 0         | 21.87                | 21.83                 | 21.88                 |                    |          |  |
| 20              | 16QAM      | 50      | 24        | 21.83                | 21.90                 | 20.91                 |                    |          |  |
| 20              | 16QAM      | 50      | 50        | 20.73                | 20.79                 | 20.86                 | 22                 | 2        |  |
| 20              | 16QAM      | 100     | 0         | 20.87                | 20.86                 | 20.80                 |                    |          |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |
| 15              | QPSK       | 1       | 0         | 22.75                | 22.75                 | 22.64                 |                    |          |  |
| 15              | QPSK       | 1       | 37        | 22.55                | 22.63                 | 22.58                 | 24                 | 0        |  |
| 15              | QPSK       | 1       | 74        | 22.59                | 22.75                 | 22.61                 |                    |          |  |
| 15              | QPSK       | 36      | 0         | 21.67                | 21.63                 | 21.68                 |                    |          |  |
| 15              | QPSK       | 36      | 20        | 21.58                | 21.71                 | 21.65                 | 23                 | 1        |  |
| 15              | QPSK       | 36      | 39        | 21.69                | 21.78                 | 21.57                 |                    |          |  |
| 15              | QPSK       | 75      | 0         | 21.67                | 21.69                 | 21.71                 |                    |          |  |
| 15              | 16QAM      | 1       | 0         | 21.46                | 21.78                 | 21.51                 |                    |          |  |
| 15              | 16QAM      | 1       | 37        | 21.80                | 21.83                 | 21.85                 | 23                 | 1        |  |
| 15              | 16QAM      | 1       | 74        | 21.67                | 21.75                 | 21.56                 |                    |          |  |
| 15              | 16QAM      | 36      | 0         | 20.63                | 20.84                 | 20.85                 |                    |          |  |
| 15              | 16QAM      | 36      | 20        | 20.71                | 20.87                 | 20.88                 |                    |          |  |
| 15              | 16QAM      | 36      | 39        | 20.69                | 20.77                 | 20.59                 | 22                 | 2        |  |
| 15              | 16QAM      | 75      | 0         | 20.56                | 20.72                 | 20.74                 |                    |          |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |
| 10              | QPSK       | 1       | 0         | 22.80                | 22.83                 | 22.58                 |                    |          |  |
| 10              | QPSK       | 1       | 25        | 22.47                | 22.66                 | 22.58                 | 24                 | 0        |  |
| 10              | QPSK       | 1       | 50        | 22.66                | 22.80                 | 22.66                 |                    |          |  |
| 10              | QPSK       | 25      | 0         | 21.71                | 21.78                 | 21.77                 |                    |          |  |
| 10              | QPSK       | 25      | 12        | 21.70                | 21.73                 | 21.68                 |                    |          |  |
| 10              | QPSK       | 1       | 49        | 21.64                | 21.84                 | 21.64                 | 23                 | 1        |  |
| 10              | QPSK       | 50      | 0         | 21.78                | 21.82                 | 21.80                 |                    |          |  |
| 10              | 16QAM      | 1       | 0         | 21.52                | 21.62                 | 21.56                 |                    |          |  |
| 10              | 16QAM      | 1       | 49        | 21.67                | 21.76                 | 21.67                 | 23                 | 1        |  |
| 10              | 16QAM      | 1       | 99        | 21.56                | 21.77                 | 21.65                 |                    |          |  |
| 10              | 16QAM      | 25      | 0         | 20.77                | 20.71                 | 20.70                 |                    |          |  |
| 10              | 16QAM      | 25      | 12        | 20.63                | 20.69                 | 20.58                 |                    |          |  |
| 10              | 16QAM      | 25      | 25        | 20.53                | 20.69                 | 20.58                 | 22                 | 2        |  |
| 10              | 16QAM      | 50      | 0         | 20.50                | 20.62                 | 20.57                 |                    |          |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |
| 5               | QPSK       | 1       | 0         | 22.86                | 22.70                 | 22.70                 |                    |          |  |
| 5               | QPSK       | 1       | 10        | 22.54                | 22.69                 | 22.46                 | 24                 | 0        |  |
| 5               | QPSK       | 1       | 24        | 22.54                | 22.62                 | 22.60                 |                    |          |  |
| 5               | QPSK       | 12      | 0         | 21.84                | 21.89                 | 21.71                 |                    |          |  |
| 5               | QPSK       | 12      | 7         | 21.81                | 21.89                 | 21.86                 | 23                 | 1        |  |
| 5               | QPSK       | 12      | 13        | 21.61                | 21.68                 | 21.76                 |                    |          |  |
| 5               | QPSK       | 25      | 0         | 21.85                | 21.67                 | 21.70                 |                    |          |  |
| 5               | 16QAM      | 1       | 0         | 21.47                | 21.78                 | 21.65                 |                    |          |  |
| 5               | 16QAM      | 1       | 12        | 21.78                | 21.79                 | 21.65                 | 23                 | 1        |  |
| 5               | 16QAM      | 1       | 24        | 21.59                | 21.63                 | 21.62                 |                    |          |  |
| 5               | 16QAM      | 12      | 0         | 20.74                | 20.81                 | 20.73                 |                    |          |  |
| 5               | 16QAM      | 12      | 7         | 20.64                | 20.69                 | 20.65                 | 22                 | 2        |  |
| 5               | 16QAM      | 12      | 13        | 20.65                | 20.70                 | 20.65                 |                    |          |  |
| 5               | 16QAM      | 25      | 0         | 20.60                | 20.61                 | 20.74                 |                    |          |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |
| 3               | QPSK       | 1       | 0         | 22.81                | 22.78                 | 22.54                 |                    |          |  |
| 3               | QPSK       | 1       | 8         | 22.53                | 22.62                 | 22.58                 | 24                 | 0        |  |
| 3               | QPSK       | 1       | 14        | 22.52                | 22.73                 | 22.62                 |                    |          |  |
| 3               | QPSK       | 8       | 0         | 21.68                | 21.67                 | 21.62                 |                    |          |  |
| 3               | QPSK       | 8       | 4         | 21.55                | 21.79                 | 21.69                 | 23                 | 1        |  |
| 3               | QPSK       | 8       | 7         | 21.62                | 21.71                 | 21.58                 |                    |          |  |
| 3               | QPSK       | 15      | 0         | 21.67                | 21.60                 | 21.74                 |                    |          |  |
| 3               | 16QAM      | 1       | 0         | 21.53                | 21.70                 | 21.59                 |                    |          |  |
| 3               | 16QAM      | 1       | 8         | 21.70                | 21.73                 | 21.68                 | 23                 | 1        |  |
| 3               | 16QAM      | 1       | 14        | 21.62                | 21.81                 | 21.68                 |                    |          |  |
| 3               | 16QAM      | 8       | 0         | 20.66                | 20.80                 | 20.66                 |                    |          |  |
| 3               | 16QAM      | 8       | 4         | 20.75                | 20.82                 | 20.83                 | 22                 | 2        |  |
| 3               | 16QAM      | 8       | 7         | 20.65                | 20.67                 | 20.64                 |                    |          |  |
| 3               | 16QAM      | 15      | 0         | 20.52                | 20.79                 | 20.65                 |                    |          |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |
| 1.4             | QPSK       | 1       | 0         | 22.70                | 22.70                 | 22.60                 |                    |          |  |
| 1.4             | QPSK       | 1       | 3         | 22.55                | 22.65                 | 22.48                 |                    |          |  |
| 1.4             | QPSK       | 1       | 5         | 22.57                | 22.66                 | 22.57                 | 24                 | 0        |  |
| 1.4             | QPSK       | 3       | 0         | 22.67                | 22.87                 | 22.64                 |                    |          |  |
| 1.4             | QPSK       | 3       | 1         | 22.67                | 22.71                 | 22.78                 |                    |          |  |
| 1.4             | QPSK       | 6       | 0         | 21.77                | 21.70                 | 21.70                 | 23                 | 1        |  |
| 1.4             | 16QAM      | 1       | 0         | 21.88                | 21.88                 | 21.52                 |                    |          |  |
| 1.4             | 16QAM      | 1       | 3         | 21.77                | 21.77                 | 21.82                 |                    |          |  |
| 1.4             | 16QAM      | 1       | 5         | 21.71                | 21.89                 | 21.50                 | 23                 | 1        |  |
| 1.4             | 16QAM      | 3       | 0         | 21.84                | 21.71                 | 21.68                 |                    |          |  |
| 1.4             | 16QAM      | 3       | 1         | 21.63                | 21.85                 | 21.72                 |                    |          |  |
| 1.4             | 16QAM      | 3       | 3         | 21.57                | 21.62                 | 21.40                 |                    |          |  |
| 1.4             | 16QAM      | 5       | 0         | 20.48                | 20.65                 | 20.62                 | 22                 | 2        |  |

| Band 4          |            |         |           |                      |                       |                       |                    |          |  |
|-----------------|------------|---------|-----------|----------------------|-----------------------|-----------------------|--------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power High Ch / Freq. | Power High Ch / Freq. | Turn-up time (sec) | MFR (dB) |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |
| 20              | QPSK       | 1       | 0         | 22.77                | 22.85                 | 22.83                 |                    |          |  |
| 20              | QPSK       | 1       | 49        | 22.75                | 22.84                 | 22.78                 | 24                 | 0        |  |
| 20              | QPSK       | 1       | 99        | 22.89                | 22.90                 | 22.69                 |                    |          |  |
| 20              | QPSK       | 50      | 0         | 21.75                | 21.86                 | 21.83                 | 23                 | 1        |  |
| 20              | QPSK       | 50      | 24        | 21.73                | 21.82                 | 21.79                 |                    |          |  |
| 20              | QPSK       | 50      | 50        | 21.78                | 21.94                 | 21.79                 |                    |          |  |
| 20              | QPSK       | 100     | 0         | 21.96                | 22.03                 | 21.84                 |                    |          |  |
| 20              | 16QAM      | 1       | 0         | 22.04                | 22.10                 | 22.07                 |                    |          |  |
| 20              | 16QAM      | 1       | 49        | 21.99                | 22.10                 | 21.89                 | 23                 | 1        |  |
| 20              | 16QAM      | 1       | 99        | 21.92                | 22.01                 | 21.89                 |                    |          |  |
| 20              | 16QAM      | 50      | 0         | 21.62                | 21.63                 | 21.60                 |                    |          |  |
| 20              | 16QAM      | 50      | 24        | 20.98                | 21.18                 | 20.99                 | 22                 | 2        |  |
| 20              | 16QAM      | 50      | 50        | 20.96                | 21.08                 | 21.01                 |                    |          |  |
| 20              | 16QAM      | 100     | 0         | 20.95                | 21.12                 | 20.93                 |                    |          |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |
| 15              | QPSK       | 1       | 0         | 22.70                | 22.75                 | 22.67                 |                    |          |  |
| 15              | QPSK       | 1       | 37        | 22.67                | 22.75                 | 22.71                 | 24                 | 0        |  |
| 15              | QPSK       | 1       | 74        | 22.64                | 22.76                 | 22.66                 |                    |          |  |
| 15              | QPSK       | 36      | 0         | 21.62                | 21.63                 | 21.60                 |                    |          |  |
| 15              | QPSK       | 36      | 20        | 21.68                | 21.82                 | 21.65                 | 23                 | 1        |  |
| 15              | QPSK       | 36      | 39        | 21.65                | 21.76                 | 21.59                 |                    |          |  |
| 15              | QPSK       | 75      | 0         | 21.62                | 21.68                 | 21.73                 |                    |          |  |
| 15              | 16QAM      | 1       | 0         | 21.80                | 21.96                 | 21.88                 |                    |          |  |
| 15              | 16QAM      | 1       | 37        | 21.92                | 21.92                 | 21.82                 | 23                 | 1        |  |
| 15              | 16QAM      | 1       | 74        | 21.71                | 21.99                 | 21.65                 |                    |          |  |
| 15              | 16QAM      | 36      | 0         | 20.76                | 20.92                 | 20.79                 |                    |          |  |
| 15              | 16QAM      | 36      | 20        | 20.89                | 21.12                 | 20.84                 | 22                 | 2        |  |
| 15              | 16QAM      | 36      | 39        | 20.85                | 21.04                 | 20.89                 |                    |          |  |
| 15              | 16QAM      | 75      | 0         | 20.89                | 21.01                 | 20.72                 |                    |          |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |
| 10              | QPSK       | 1       | 0         | 22.61                | 22.92                 | 22.69                 |                    |          |  |
| 10              | QPSK       | 1       | 25        | 22.61                | 22.79                 | 22.71                 | 24                 | 0        |  |
| 10              | QPSK       | 1       | 49        | 22.65                | 22.73                 | 22.68                 |                    |          |  |
| 10              | QPSK       | 25      | 0         | 21.73                | 21.78                 | 21.74                 |                    |          |  |
| 10              | QPSK       | 25      | 12        | 21.57                | 21.81                 | 21.68                 | 23                 | 1        |  |
| 10              | QPSK       | 25      | 14        | 21.63                | 21.84                 | 21.63                 |                    |          |  |
| 10              | QPSK       | 50      | 0         | 21.81                | 21.85                 | 21.76                 |                    |          |  |
| 10              | 16QAM      | 1       | 0         | 21.97                | 22.08                 | 21.85                 |                    |          |  |
| 10              | 16QAM      | 1       | 25        | 21.99                | 21.98                 | 21.85                 | 23                 | 1        |  |
| 10              | 16QAM      | 1       | 49        | 21.72                | 21.96                 | 21.98                 |                    |          |  |
| 10              | 16QAM      | 25      | 0         | 20.72                | 20.85                 | 20.82                 |                    |          |  |
| 10              | 16QAM      | 25      | 12        | 20.80                | 20.83                 | 20.80                 | 22                 | 2        |  |
| 10              | 16QAM      | 25      | 25        | 20.81                | 21.01                 | 20.84                 |                    |          |  |
| 10              | 16QAM      | 50      | 0         | 20.77                | 21.01                 | 20.79                 |                    |          |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |
| 5               | QPSK       | 1       | 0         | 22.66                | 22.84                 | 22.75                 |                    |          |  |
| 5               | QPSK       | 1       | 12        | 22.63                | 22.68                 | 22.68                 | 24                 | 0        |  |
| 5               | QPSK       | 1       | 24        | 22.61                | 22.78                 | 22.59                 |                    |          |  |
| 5               | QPSK       | 12      | 0         | 21.72                | 21.83                 | 21.67                 |                    |          |  |
| 5               | QPSK       | 12      | 7         | 21.66                | 21.87                 | 21.62                 | 23                 | 1        |  |
| 5               | QPSK       | 12      | 13        | 21.72                | 21.88                 | 21.64                 |                    |          |  |
| 5               | QPSK       | 25      | 0         | 21.90                | 22.00                 | 21.78                 |                    |          |  |
| 5               | 16QAM      | 1       | 0         | 21.88                | 21.98                 | 22.00                 |                    |          |  |
| 5               | 16QAM      | 1       | 12        | 21.87                | 21.97                 | 21.97                 | 23                 | 1        |  |
| 5               | 16QAM      | 1       | 24        | 21.87                | 21.91                 | 21.91                 |                    |          |  |
| 5               | 16QAM      | 12      | 0         | 20.70                | 20.85                 | 20.81                 |                    |          |  |
| 5               | 16QAM      | 12      | 7         | 20.82                | 21.10                 | 20.82                 | 22                 | 2        |  |
| 5               | 16QAM      | 12      | 13        | 20.84                | 20.95                 | 20.86                 |                    |          |  |
| 5               | 16QAM      | 25      | 0         | 20.81                | 20.97                 | 20.89                 |                    |          |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |
| 3               | QPSK       | 1       | 0         | 22.64                | 22.87                 | 22.78                 |                    |          |  |
| 3               | QPSK       | 1       | 6         | 22.63                | 22.80                 | 22.74                 | 24                 | 0        |  |
| 3               | QPSK       | 1       | 14        | 22.67                | 22.69                 | 22.67                 |                    |          |  |
| 3               | QPSK       | 6       | 0         | 21.67                | 21.78                 | 21.62                 |                    |          |  |
| 3               | QPSK       | 6       | 6         | 21.66                | 21.73                 | 21.66                 | 23                 | 1        |  |
| 3               | QPSK       | 6       | 8         | 21.64                | 21.89                 | 21.58                 |                    |          |  |
| 3               | QPSK       | 15      | 0         | 21.83                | 21.85                 | 21.87                 |                    |          |  |
| 3               | 16QAM      | 1       | 0         | 21.90                | 21.91                 | 21.91                 |                    |          |  |
| 3               | 16QAM      | 1       | 6         | 21.90                | 22.08                 | 21.92                 | 23                 | 1        |  |
| 3               | 16QAM      | 1       | 14        | 21.90                | 21.92                 | 21.97                 |                    |          |  |
| 3               | 16QAM      | 6       | 0         | 20.71                | 20.88                 | 20.71                 |                    |          |  |
| 3               | 16QAM      | 6       | 6         | 20.86                | 21.09                 | 20.85                 | 22                 | 2        |  |
| 3               | 16QAM      | 8       | 7         | 20.92                | 20.97                 | 20.89                 |                    |          |  |
| 3               | 16QAM      | 15      | 0         | 20.82                | 20.97                 | 20.93                 |                    |          |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |
| 1.4             | QPSK       | 1       | 0         | 22.65                | 22.84                 | 22.69                 |                    |          |  |
| 1.4             | QPSK       | 1       | 6         | 22.66                | 22.81                 | 22.81                 | 24                 | 0        |  |
| 1.4             | QPSK       | 1       | 9         | 22.66                | 22.81                 | 22.80                 |                    |          |  |
| 1.4             | QPSK       | 3       | 0         | 22.64                | 22.68                 | 22.68                 | 24                 | 0        |  |
| 1.4             | QPSK       | 3       | 3         | 22.64                | 22.79                 | 22.68                 |                    |          |  |
| 1.4             | QPSK       | 3       | 3         | 22.68                | 22.83                 | 22.80                 |                    |          |  |
| 1.4             | QPSK       | 6       | 0         | 21.90                | 21.93                 | 21.91                 |                    |          |  |
| 1.4             | QPSK       | 6       | 6         | 21.90                | 22.04                 | 21.94                 | 23                 | 1        |  |
| 1.4             | QPSK       | 1       | 9         | 21.85                | 21.95                 | 21.79                 |                    |          |  |
| 1.4             | 16QAM      | 1       | 0         | 21.89                | 21.92                 | 21.91                 |                    |          |  |
| 1.4             | 16QAM      | 1       | 6         | 21.71                | 21.98                 | 21.71                 | 23                 | 1        |  |
| 1.4             | 16QAM      | 1       | 9         | 21.91                | 22.03                 | 21.83                 |                    |          |  |
| 1.4             | 16QAM      | 3       | 0         | 21.97                | 21.98                 | 21.97                 |                    |          |  |
| 1.4             | 16QAM      | 3       | 0         | 20.94                | 20.94                 | 20.95                 | 22                 | 2        |  |



| Band 13         |            |         |           |                           |                     |                      |                   |          |  |    |   |  |
|-----------------|------------|---------|-----------|---------------------------|---------------------|----------------------|-------------------|----------|--|----|---|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./Freq.       | Power Mod Ch./Freq. | Power High Ch./Freq. | Tune-up Int. (dB) | MPE (dB) |  |    |   |  |
| Channel         |            |         |           |                           |                     |                      |                   |          |  |    |   |  |
| Frequency (MHz) |            |         |           | 792                       |                     |                      |                   |          |  |    |   |  |
| 10              | QPSK       | 1       | 0         | 23.40                     |                     |                      | 24                | 0        |  |    |   |  |
| 10              | QPSK       | 1       | 25        | 23.28                     |                     |                      |                   |          |  |    |   |  |
| 10              | QPSK       | 1       | 49        | 23.21                     |                     |                      |                   |          |  |    |   |  |
| 10              | QPSK       | 25      | 0         | 22.48                     |                     |                      |                   |          |  |    |   |  |
| 10              | QPSK       | 25      | 12        | 22.30                     |                     |                      | 23                | 1        |  |    |   |  |
| 10              | QPSK       | 25      | 25        | 22.23                     |                     |                      |                   |          |  |    |   |  |
| 10              | QPSK       | 50      | 0         | 22.52                     |                     |                      |                   |          |  |    |   |  |
| 10              | 16QAM      | 1       | 0         | 22.57                     |                     |                      |                   |          |  |    |   |  |
| 10              | 16QAM      | 1       | 25        | 22.43                     |                     |                      | 23                | 1        |  |    |   |  |
| 10              | 16QAM      | 1       | 49        | 22.43                     |                     |                      |                   |          |  |    |   |  |
| 10              | 16QAM      | 25      | 0         | 21.48                     |                     |                      |                   |          |  |    |   |  |
| 10              | 16QAM      | 25      | 12        | 21.48                     |                     |                      |                   |          |  |    |   |  |
| 10              | 16QAM      | 25      | 25        | 21.31                     |                     |                      | 22                | 2        |  |    |   |  |
| 10              | 16QAM      | 50      | 0         | 21.38                     |                     |                      |                   |          |  |    |   |  |
| Channel         |            |         |           | 2305                      |                     |                      |                   |          |  |    |   |  |
| Frequency (MHz) |            |         |           | 779.5      762      794.5 |                     |                      |                   |          |  |    |   |  |
| 5               | QPSK       | 1       | 0         | 23.35                     | 23.28               | 23.31                |                   |          |  | 24 | 0 |  |
| 5               | QPSK       | 1       | 12        | 23.18                     | 23.19               | 23.11                |                   |          |  |    |   |  |
| 5               | QPSK       | 1       | 24        | 23.01                     | 23.02               | 23.08                |                   |          |  |    |   |  |
| 5               | QPSK       | 10      | 0         | 22.31                     | 22.38               | 22.29                |                   |          |  |    |   |  |
| 5               | QPSK       | 12      | 7         | 22.15                     | 22.18               | 22.20                | 23                | 1        |  |    |   |  |
| 5               | QPSK       | 12      | 13        | 22.05                     | 22.02               | 22.08                |                   |          |  |    |   |  |
| 5               | QPSK       | 25      | 0         | 22.11                     | 22.06               | 22.13                |                   |          |  |    |   |  |
| 5               | 16QAM      | 1       | 0         | 22.53                     | 22.48               | 22.47                |                   |          |  |    |   |  |
| 5               | 16QAM      | 1       | 12        | 22.39                     | 22.33               | 22.36                | 23                | 1        |  |    |   |  |
| 5               | 16QAM      | 1       | 24        | 22.31                     | 22.24               | 22.29                |                   |          |  |    |   |  |
| 5               | 16QAM      | 12      | 0         | 21.40                     | 21.31               | 21.40                |                   |          |  |    |   |  |
| 5               | 16QAM      | 12      | 7         | 21.35                     | 21.41               | 21.36                |                   |          |  |    |   |  |
| 5               | 16QAM      | 12      | 13        | 21.21                     | 21.17               | 21.26                | 22                | 2        |  |    |   |  |
| 5               | 16QAM      | 25      | 0         | 21.20                     | 21.32               | 21.32                |                   |          |  |    |   |  |

| Band 26         |            |         |           |                     |                     |                      |                   |          |  |  |  |  |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|-------------------|----------|--|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Mod Ch./Freq. | Power High Ch./Freq. | Tune-up Int. (dB) | MPE (dB) |  |  |  |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |  |  |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 22.84               | 22.84               | 22.80                | 24                | 0        |  |  |  |  |
| 15              | QPSK       | 1       | 27        | 22.78               | 22.87               | 22.83                |                   |          |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 22.71               | 22.91               | 22.75                |                   |          |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 21.74               | 21.31               | 21.83                |                   |          |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 21.71               | 21.88               | 21.70                | 23                | 1        |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 21.70               | 21.80               | 21.69                |                   |          |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 21.81               | 21.66               | 21.67                |                   |          |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 21.96               | 22.02               | 21.94                |                   |          |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 21.77               | 21.90               | 21.75                | 23                | 1        |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 21.93               | 21.89               | 21.94                |                   |          |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 21.01               | 21.06               | 20.93                |                   |          |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 20.92               | 21.00               | 20.95                |                   |          |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 20.83               | 20.92               | 20.81                | 22                | 2        |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 20.79               | 20.99               | 20.94                |                   |          |  |  |  |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |  |  |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 22.73               | 22.85               | 22.85                | 24                | 0        |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 22.69               | 22.72               | 22.74                |                   |          |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 22.66               | 22.85               | 22.82                |                   |          |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 21.69               | 21.81               | 21.85                |                   |          |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 21.57               | 21.78               | 21.64                | 23                | 1        |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 21.65               | 21.65               | 21.66                |                   |          |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 21.87               | 21.82               | 21.82                |                   |          |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 21.87               | 21.87               | 21.78                |                   |          |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 21.65               | 21.61               | 21.67                | 23                | 1        |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 21.86               | 21.91               | 21.76                |                   |          |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 20.88               | 20.89               | 20.89                |                   |          |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 20.75               | 20.84               | 20.87                |                   |          |  |  |  |  |
| 10              | 16QAM      | 25      | 13        | 20.72               | 20.80               | 20.73                | 22                | 2        |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 20.62               | 20.69               | 20.83                |                   |          |  |  |  |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |  |  |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 22.74               | 22.81               | 22.81                | 24                | 0        |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 22.69               | 22.81               | 22.72                |                   |          |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 22.54               | 22.77               | 22.65                |                   |          |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 21.70               | 21.88               | 21.78                |                   |          |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 21.54               | 21.74               | 21.56                | 23                | 1        |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 21.55               | 21.67               | 21.62                |                   |          |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 21.65               | 21.77               | 21.60                |                   |          |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 21.88               | 21.91               | 21.91                |                   |          |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 21.68               | 21.78               | 21.71                | 23                | 1        |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 21.88               | 21.86               | 21.84                |                   |          |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 20.87               | 20.97               | 20.82                |                   |          |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 20.65               | 20.92               | 20.86                |                   |          |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 20.68               | 20.87               | 20.77                | 22                | 2        |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 20.73               | 20.87               | 20.81                |                   |          |  |  |  |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |  |  |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 22.77               | 22.81               | 22.83                | 24                | 0        |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 22.69               | 22.69               | 22.76                |                   |          |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 22.65               | 22.79               | 22.71                |                   |          |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 21.70               | 21.73               | 21.80                |                   |          |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 21.61               | 21.78               | 21.67                | 23                | 1        |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 21.65               | 21.70               | 21.60                |                   |          |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 21.76               | 21.80               | 21.80                |                   |          |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 21.85               | 21.85               | 21.84                |                   |          |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 21.64               | 21.74               | 21.62                | 23                | 1        |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 21.76               | 21.95               | 21.90                |                   |          |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 20.92               | 20.97               | 20.76                |                   |          |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 20.68               | 20.87               | 20.83                |                   |          |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 20.80               | 20.75               | 20.68                | 22                | 2        |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 20.77               | 20.85               | 20.90                |                   |          |  |  |  |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |  |  |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 22.77               | 22.77               | 22.73                | 24                | 0        |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 22.67               | 22.79               | 22.89                |                   |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 22.57               | 22.76               | 22.81                |                   |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 22.60               | 22.81               | 22.60                |                   |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 22.63               | 22.62               | 22.55                | 28                | 1        |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 21.72               | 21.82               | 21.82                |                   |          |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 21.89               | 21.99               | 21.87                |                   |          |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 21.67               | 21.84               | 21.80                |                   |          |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 21.63               | 21.84               | 21.85                | 23                | 1        |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 21.85               | 21.89               | 21.88                |                   |          |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 21.79               | 21.90               | 21.77                |                   |          |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 21.70               | 21.77               | 21.66                |                   |          |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 20.87               | 20.86               | 20.58                | 22                | 2        |  |  |  |  |

| Band 66         |            |         |           |                     |                     |                      |                   |          |  |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|-------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Mod Ch./Freq. | Power High Ch./Freq. | Tune-up Int. (dB) | MPE (dB) |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |
| 20              | QPSK       | 1       | 0         | 22.99               | 23.05               | 22.90                | 24                | 0        |  |
| 20              | QPSK       | 1       | 49        | 22.85               | 23.04               | 22.94                |                   |          |  |
| 20              | QPSK       | 1       | 99        | 22.97               | 22.90               | 22.88                |                   |          |  |
| 20              | QPSK       | 50      | 0         | 22.08               | 22.17               | 22.04                |                   |          |  |
| 20              | QPSK       | 50      | 24        | 21.95               | 22.05               | 21.92                | 23                | 1        |  |
| 20              | QPSK       | 50      | 50        | 22.00               | 22.12               | 21.96                |                   |          |  |
| 20              | QPSK       | 100     | 0         | 21.83               | 21.96               | 21.84                |                   |          |  |
| 20              | 16QAM      | 1       | 0         | 21.85               | 22.02               | 21.88                |                   |          |  |
| 20              | 16QAM      | 1       | 49        | 21.99               | 22.08               | 22.04                | 23                | 1        |  |
| 20              | 16QAM      | 1       | 99        | 21.82               | 21.97               | 21.85                |                   |          |  |
| 20              | 16QAM      | 36      | 0         | 21.09               | 21.15               | 21.06                |                   |          |  |
| 20              | 16QAM      | 50      | 24        | 20.97               | 21.12               | 21.00                | 22                | 2        |  |
| 20              | 16QAM      | 50      | 50        | 21.06               | 21.10               | 21.03                |                   |          |  |
| 20              | 16QAM      | 100     | 0         | 20.71               | 20.87               | 20.68                |                   |          |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |
| 15              | QPSK       | 1       | 0         | 17.175              | 17.45               | 17.275               | 24                | 0        |  |
| 15              | QPSK       | 1       | 49        | 22.91               | 22.95               | 22.87                |                   |          |  |
| 15              | QPSK       | 1       | 99        | 22.85               | 23.01               | 22.93                |                   |          |  |
| 15              | QPSK       | 1       | 74        | 22.80               | 22.85               | 22.82                |                   |          |  |
| 15              | QPSK       | 36      | 0         | 21.98               | 22.15               | 21.98                | 23                | 1        |  |
| 15              | QPSK       | 36      | 24        | 21.88               | 21.88               | 21.88                |                   |          |  |
| 15              | QPSK       | 36      | 50        | 21.84               | 21.90               | 21.81                |                   |          |  |
| 15              | QPSK       | 75      | 0         | 21.73               | 21.80               | 21.78                |                   |          |  |
| 15              | 16QAM      | 1       | 0         | 21.81               | 21.97               | 21.73                | 23                | 1        |  |
| 15              | 16QAM      | 1       | 37        | 21.88               | 21.90               | 22.00                |                   |          |  |
| 15              | 16QAM      | 1       | 74        | 21.73               | 21.84               | 21.75                |                   |          |  |
| 15              | 16QAM      | 36      | 0         | 21.02               | 21.04               | 21.04                | 22                | 2        |  |
| 15              | 16QAM      | 36      | 24        | 20.94               | 21.04               | 20.83                |                   |          |  |
| 15              | 16QAM      | 36      | 50        | 20.83               | 21.03               | 20.92                |                   |          |  |
| 15              | 16QAM      | 75      | 0         | 20.60               | 20.75               | 20.60                |                   |          |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |
| 10              | QPSK       | 1       | 0         | 22.99               | 23.05               | 22.90                | 24                | 0        |  |
| 10              | QPSK       | 1       | 25        | 22.72               | 22.88               | 22.82                |                   |          |  |
| 10              | QPSK       | 1       | 49        | 22.59               | 22.73               | 22.80                |                   |          |  |
| 10              | QPSK       | 1       | 74        | 22.52               | 22.65               | 22.60                |                   |          |  |
| 10              | QPSK       | 25      | 0         | 21.87               | 22.00               | 21.77                | 23                | 1        |  |
| 10              | QPSK       | 25      | 25        | 21.91               | 21.94               | 21.85                |                   |          |  |
| 10              | QPSK       | 25      | 50        | 21.89               | 21.90               | 21.89                |                   |          |  |
| 10              | 16QAM      | 1       | 0         | 21.79               | 21.86               | 21.84                |                   |          |  |
| 10              | 16QAM      | 1       | 25        | 21.62               | 21.66               | 21.68                | 23                | 1        |  |
| 10              | 16QAM      | 1       | 49        | 21.55               | 21.61               | 21.61                |                   |          |  |
| 10              | 16QAM      | 25      | 0         | 21.04               | 21.09               | 21.05                |                   |          |  |
| 10              | 16QAM      | 25      | 25        | 20.91               | 20.98               | 20.83                |                   |          |  |
| 10              | 16QAM      | 25      | 50        | 20.88               | 20.96               | 20.83                | 22                | 2        |  |
| 10              | 16QAM      | 50      | 0         | 20.68               | 20.76               | 20.75                |                   |          |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |
| 5               | QPSK       | 1       | 0         | 22.93               | 23.02               | 22.97                | 24                | 0        |  |
| 5               | QPSK       | 1       | 14        | 22.71               | 22.86               | 22.79                |                   |          |  |
| 5               | QPSK       | 1       | 28        | 22.52               | 22.64               | 22.74                |                   |          |  |
| 5               | QPSK       | 12      | 0         | 22.04               | 22.12               | 22.04                |                   |          |  |
| 5               | QPSK       | 12      | 7         | 21.81               | 21.86               | 21.86                | 23                | 1        |  |
| 5               | QPSK       | 12      | 14        | 21.95               | 21.91               | 21.91                |                   |          |  |
| 5               | QPSK       | 12      | 21        | 21.72               | 21.78               | 21.80                |                   |          |  |
| 5               | 16QAM      | 1       | 0         | 21.81               | 21.86               | 21.83                |                   |          |  |
| 5               | 16QAM      | 1       | 14        | 21.67               | 21.72               | 21.72                | 23                | 1        |  |
| 5               | 16QAM      | 1       | 28        | 21.78               | 21.84               | 21.74                |                   |          |  |
| 5               | 16QAM      | 12      | 0         | 21.07               | 20.98               | 20.90                |                   |          |  |
| 5               | 16QAM      | 12      | 7         | 20.95               | 20.95               | 20.95                |                   |          |  |
| 5               | 16QAM      | 12      | 14        | 20.95               | 20.95               | 20.93                | 22                | 2        |  |
| 5               | 16QAM      | 25      | 0         | 20.71               | 20.80               | 20.85                |                   |          |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |
| 3               | QPSK       | 1       | 0         | 17.115              | 17.45               | 17.375               | 24                | 0        |  |
| 3               | QPSK       | 1       | 0         | 22.90               | 22.92               | 22.75                |                   |          |  |
| 3               | QPSK       | 1       | 14        | 22.67               | 22.85               | 22.79                |                   |          |  |
| 3               | QPSK       | 1       | 14        | 22.62               | 22.85               | 22.74                |                   |          |  |
| 3               | QPSK       | 8       | 0         | 22.04               | 22.14               | 21.97                | 23                | 1        |  |
| 3               | QPSK       | 8       | 7         | 21.95               | 21.98               | 21.98                |                   |          |  |
| 3               | QPSK       | 8       | 6         | 21.92               | 22.08               | 21.85                |                   |          |  |
| 3               | QPSK       | 15      | 0         | 21.70               | 21.92               | 21.68                |                   |          |  |
| 3               | 16QAM      | 1       | 0         | 21.87               | 21.71               | 21.71                | 23                | 1        |  |
| 3               | 16QAM      | 1       | 14        | 21.70               | 21.80               | 21.78                |                   |          |  |
| 3               | 16QAM      | 1       | 14        | 21.65               | 21.80               | 21.65                |                   |          |  |
| 3               | 16QAM      | 8       | 0         | 20.98               | 20.94               | 20.90                |                   |          |  |
| 3               | 16QAM      | 8       | 7         | 20.92               | 20.96               | 20.85                | 22                | 2        |  |
| 3               | 16QAM      | 8       | 6         | 20.83               | 20.90               | 20.80                |                   |          |  |
| Channel         |            |         |           |                     |                     |                      |                   |          |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                   |          |  |
| 1.4             | QPSK       | 1       | 0         | 22.86               | 22.90               | 22.80                | 24                | 0        |  |
| 1.4             | QPSK       | 1       | 0         | 22.81               | 22.86               | 22.84                |                   |          |  |
| 1.4             | QPSK       | 1       | 5         | 22.60               | 22.73               | 22.70                |                   |          |  |
| 1.4             | QPSK       | 3       | 0         | 22.02               | 22.05               | 22.99                |                   |          |  |
| 1.4             | QPSK       | 3       | 3         | 22.04               | 22.09               | 22.77                | 23                | 1        |  |
| 1.4             | QPSK       | 3       | 3         | 22.01               | 22.07               | 22.93                |                   |          |  |
| 1.4             | QPSK       | 6       | 0         | 21.70               | 21.80               | 21.72                |                   |          |  |
| 1.4             | QPSK       | 6       | 0         | 21.74               | 21.79               | 21.79                |                   |          |  |
| 1.4             | 16QAM      | 1       | 0         | 21.95               | 22.00               | 21.92                | 23                | 1        |  |
| 1.4             | 16QAM      | 1       | 5         | 21.74               | 21.84               | 21.72                |                   |          |  |
| 1.4             | 16QAM      | 3       | 0         | 21.88               | 21.88               | 21.85                |                   |          |  |
| 1.4             | 16QAM      | 3       | 0         | 20.99               | 20.99               | 20.94                |                   |          |  |
| 1.4             | 16QAM      | 6       | 0         | 20.69               | 20.75               | 20.74                | 22                | 2        |  |
| 1.4             | 16QAM      | 6       | 0         | 20.69               | 20.75               | 20.74                |                   |          |  |

| Band 38         |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |
| 20              | QPSK       | 1       | 0         | 23.03                 | 23.12                    | 22.96                  |                     |          |
| 20              | QPSK       | 1       | 49        | 22.94                 | 23.09                    | 23.06                  | 24                  | 0        |
| 20              | QPSK       | 1       | 99        | 22.94                 | 22.99                    | 22.89                  |                     |          |
| 20              | QPSK       | 50      | 0         | 21.99                 | 22.16                    | 22.06                  |                     |          |
| 20              | QPSK       | 50      | 24        | 22.03                 | 22.12                    | 21.96                  |                     |          |
| 20              | QPSK       | 50      | 50        | 21.87                 | 22.01                    | 21.90                  | 23                  | 1        |
| 20              | QPSK       | 100     | 0         | 21.95                 | 22.08                    | 22.02                  |                     |          |
| 20              | 16QAM      | 1       | 0         | 22.02                 | 22.20                    | 22.10                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 22.13                 | 22.15                    | 22.06                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 22.03                 | 22.07                    | 21.91                  | 23                  | 1        |
| 20              | 16QAM      | 50      | 0         | 21.04                 | 21.22                    | 21.07                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 20.96                 | 21.07                    | 20.93                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 20.98                 | 21.09                    | 21.01                  |                     |          |
| 20              | 16QAM      | 100     | 0         | 20.88                 | 21.03                    | 21.01                  | 22                  | 2        |
| Channel         |            |         |           | 37825                 | 38000                    | 38175                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 22.87                 | 22.97                    | 22.92                  |                     |          |
| 15              | QPSK       | 1       | 37        | 22.78                 | 23.00                    | 22.93                  | 24                  | 0        |
| 15              | QPSK       | 1       | 74        | 22.81                 | 22.89                    | 22.80                  |                     |          |
| 15              | QPSK       | 36      | 0         | 21.81                 | 22.00                    | 22.02                  |                     |          |
| 15              | QPSK       | 36      | 20        | 21.88                 | 22.06                    | 21.85                  |                     |          |
| 15              | QPSK       | 36      | 39        | 21.72                 | 21.86                    | 21.78                  | 23                  | 1        |
| 15              | QPSK       | 75      | 0         | 21.92                 | 21.92                    | 21.97                  |                     |          |
| 15              | 16QAM      | 1       | 0         | 21.96                 | 22.03                    | 21.94                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 21.99                 | 22.01                    | 21.96                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 21.95                 | 21.93                    | 21.82                  | 23                  | 1        |
| 15              | 16QAM      | 36      | 0         | 20.87                 | 21.10                    | 21.02                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 20.93                 | 21.02                    | 20.80                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 20.86                 | 20.92                    | 20.84                  |                     |          |
| 15              | 16QAM      | 75      | 0         | 20.84                 | 21.00                    | 20.97                  | 22                  | 2        |
| Channel         |            |         |           | 37800                 | 38000                    | 38200                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2575                  | 2595                     | 2615                   |                     |          |
| 10              | QPSK       | 1       | 0         | 22.89                 | 22.99                    | 22.85                  |                     |          |
| 10              | QPSK       | 1       | 25        | 22.89                 | 23.06                    | 22.92                  | 24                  | 0        |
| 10              | QPSK       | 1       | 49        | 22.81                 | 22.83                    | 22.85                  |                     |          |
| 10              | QPSK       | 25      | 0         | 21.83                 | 22.11                    | 21.99                  |                     |          |
| 10              | QPSK       | 25      | 12        | 21.97                 | 22.03                    | 21.88                  |                     |          |
| 10              | QPSK       | 25      | 25        | 21.83                 | 21.91                    | 21.74                  | 23                  | 1        |
| 10              | QPSK       | 50      | 0         | 21.86                 | 22.02                    | 21.90                  |                     |          |
| 10              | 16QAM      | 1       | 0         | 21.96                 | 22.05                    | 21.94                  |                     |          |
| 10              | 16QAM      | 1       | 25        | 22.02                 | 22.04                    | 21.99                  |                     |          |
| 10              | 16QAM      | 1       | 49        | 21.93                 | 21.90                    | 21.77                  | 23                  | 1        |
| 10              | 16QAM      | 25      | 0         | 20.92                 | 21.15                    | 20.99                  |                     |          |
| 10              | 16QAM      | 25      | 12        | 20.81                 | 20.93                    | 20.86                  |                     |          |
| 10              | 16QAM      | 25      | 25        | 20.90                 | 21.01                    | 20.90                  |                     |          |
| 10              | 16QAM      | 50      | 0         | 20.83                 | 20.98                    | 20.88                  | 22                  | 2        |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |          |
| 5               | QPSK       | 1       | 0         | 22.85                 | 23.00                    | 22.85                  |                     |          |
| 5               | QPSK       | 1       | 12        | 22.85                 | 22.99                    | 22.95                  | 24                  | 0        |
| 5               | QPSK       | 1       | 24        | 22.79                 | 22.82                    | 22.80                  |                     |          |
| 5               | QPSK       | 12      | 0         | 21.84                 | 22.02                    | 22.00                  |                     |          |
| 5               | QPSK       | 12      | 7         | 21.94                 | 22.02                    | 21.89                  |                     |          |
| 5               | QPSK       | 12      | 13        | 21.75                 | 21.98                    | 21.73                  | 23                  | 1        |
| 5               | QPSK       | 25      | 0         | 21.88                 | 21.92                    | 21.84                  |                     |          |
| 5               | 16QAM      | 1       | 0         | 21.91                 | 22.15                    | 22.08                  |                     |          |
| 5               | 16QAM      | 1       | 12        | 21.99                 | 22.12                    | 22.03                  |                     |          |
| 5               | 16QAM      | 1       | 24        | 21.87                 | 21.92                    | 21.82                  | 23                  | 1        |
| 5               | 16QAM      | 12      | 0         | 20.99                 | 21.15                    | 21.04                  |                     |          |
| 5               | 16QAM      | 12      | 7         | 20.94                 | 21.05                    | 20.82                  |                     |          |
| 5               | 16QAM      | 12      | 13        | 20.83                 | 20.92                    | 20.92                  |                     |          |
| 5               | 16QAM      | 25      | 0         | 20.79                 | 20.90                    | 20.85                  | 22                  | 2        |

## Reduced Power Mode for Hotspot

| GSM900          | 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   | 32.05                     | 32.11 | 32.01 | 33.00               | 23.05                     | 23.11 | 23.01 | 24.00               |
| GPRS 1 Tx slot  | 32.00                     | 32.09 | 31.95 | 33.00               | 23.00                     | 23.09 | 22.95 | 24.00               |
| GPRS 2 Tx slots | 29.92                     | 30.05 | 29.93 | 31.00               | 23.92                     | 24.05 | 23.93 | 25.00               |
| GPRS 3 Tx slots | 28.11                     | 28.23 | 28.00 | 29.50               | 23.85                     | 23.97 | 23.74 | 25.24               |
| GPRS 4 Tx slots | 26.03                     | 26.07 | 25.96 | 27.00               | 23.03                     | 23.07 | 22.96 | 24.00               |
| EDGE 1 Tx slot  | 25.41                     | 25.55 | 25.50 | 27.00               | 16.41                     | 16.55 | 16.50 | 18.00               |
| EDGE 2 Tx slots | 24.09                     | 24.22 | 24.18 | 26.00               | 18.09                     | 18.22 | 18.18 | 20.00               |
| EDGE 3 Tx slots | 22.01                     | 22.04 | 21.97 | 23.50               | 17.75                     | 17.78 | 17.71 | 19.24               |
| EDGE 4 Tx slots | 19.53                     | 19.69 | 19.59 | 21.00               | 16.53                     | 16.69 | 16.59 | 18.00               |

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
|                 | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| TX Channel      | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| Frequency (MHz) |                           |       |        |                     |                           |       |        |                     |
| GSM 1 Tx slot   | 21.44                     | 21.44 | 21.37  | 23.00               | 12.44                     | 12.44 | 12.37  | 14.00               |
| GPRS 1 Tx slot  | 21.42                     | 21.46 | 21.49  | 23.00               | 12.42                     | 12.46 | 12.49  | 14.00               |
| GPRS 2 Tx slots | 19.11                     | 19.30 | 19.07  | 20.00               | 13.11                     | 13.30 | 13.07  | 14.00               |
| GPRS 3 Tx slots | 18.16                     | 18.39 | 18.35  | 19.00               | 13.90                     | 14.13 | 14.09  | 14.74               |
| GPRS 4 Tx slots | 17.04                     | 17.12 | 17.02  | 17.50               | 14.04                     | 14.12 | 14.02  | 14.50               |
| EDGE 1 Tx slot  | 22.39                     | 22.21 | 22.33  | 23.00               | 13.39                     | 13.21 | 13.33  | 14.00               |
| EDGE 2 Tx slots | 18.31                     | 18.38 | 18.35  | 20.00               | 12.31                     | 12.38 | 12.35  | 14.00               |
| EDGE 3 Tx slots | 16.84                     | 16.91 | 16.88  | 18.00               | 12.58                     | 12.65 | 12.62  | 13.74               |
| EDGE 4 Tx slots | 16.36                     | 16.49 | 16.42  | 17.00               | 13.36                     | 13.49 | 13.42  | 14.00               |

| Band            |                    | WCDMA 8 |       |        | Tune-up Limit (dBm) | WCDMA 4 |        |        | Tune-up Limit (dBm) | WCDMA 5 |       |       | Tune-up Limit (dBm) |
|-----------------|--------------------|---------|-------|--------|---------------------|---------|--------|--------|---------------------|---------|-------|-------|---------------------|
| TX Channel      |                    | 9262    | 9400  | 9538   |                     | 1312    | 1413   | 1513   |                     | 4132    | 4182  | 4233  |                     |
| Rx Channel      |                    | 9662    | 9800  | 9938   |                     | 1537    | 1638   | 1738   |                     | 4357    | 4407  | 4458  |                     |
| Frequency (MHz) |                    | 1852.4  | 1880  | 1907.6 |                     | 1712.4  | 1732.6 | 1752.6 |                     | 826.4   | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 16.13   | 16.30 | 16.06  | 17.50               | 15.52   | 15.71  | 15.58  | 17.00               | 22.23   | 22.28 | 22.21 | 24.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 16.25   | 16.42 | 16.19  | 17.50               | 15.57   | 15.80  | 15.63  | 17.00               | 22.25   | 22.39 | 22.26 | 24.00               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 15.22   | 15.38 | 15.15  | 16.50               | 14.50   | 14.74  | 14.76  | 16.00               | 21.07   | 21.46 | 21.35 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 15.44   | 15.49 | 15.33  | 16.50               | 14.73   | 14.96  | 14.81  | 16.00               | 21.35   | 21.19 | 21.30 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 14.90   | 15.04 | 14.80  | 16.00               | 14.16   | 14.43  | 14.31  | 15.50               | 20.87   | 20.72 | 20.69 | 22.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 14.92   | 15.12 | 14.92  | 16.00               | 14.38   | 14.48  | 14.31  | 15.50               | 20.76   | 20.98 | 20.83 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 15.17   | 15.35 | 14.98  | 16.50               | 14.46   | 14.64  | 14.69  | 16.00               | 21.28   | 21.60 | 21.26 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 15.21   | 15.54 | 15.13  | 16.50               | 14.66   | 14.82  | 14.75  | 16.00               | 21.17   | 21.46 | 21.43 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 14.81   | 14.99 | 14.86  | 16.00               | 14.30   | 14.29  | 14.35  | 15.50               | 20.66   | 20.98 | 20.89 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 14.98   | 15.18 | 14.86  | 16.00               | 14.20   | 14.40  | 14.41  | 15.50               | 20.80   | 21.02 | 20.67 | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 15.21   | 15.51 | 15.28  | 16.50               | 14.79   | 14.88  | 14.64  | 16.00               | 21.09   | 21.28 | 21.00 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 13.29   | 13.34 | 13.12  | 14.50               | 12.57   | 12.77  | 12.71  | 14.00               | 19.29   | 19.10 | 19.25 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 14.45   | 14.52 | 14.17  | 15.50               | 13.64   | 13.82  | 13.77  | 15.00               | 20.09   | 20.14 | 20.10 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 13.31   | 13.55 | 13.17  | 14.50               | 12.55   | 12.77  | 12.73  | 14.00               | 19.24   | 19.16 | 19.34 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 15.25   | 15.42 | 15.04  | 16.50               | 14.60   | 14.76  | 14.65  | 16.00               | 21.38   | 21.46 | 21.50 | 23.00               |



| Band 2          |            |         |           |                      |                      |                       |                    |          |  |      |   |  |
|-----------------|------------|---------|-----------|----------------------|----------------------|-----------------------|--------------------|----------|--|------|---|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Mid Ch / Freq. | Power High Ch / Freq. | Turn-up time (sec) | MFR (dB) |  |      |   |  |
| Channel         |            |         |           |                      |                      |                       |                    |          |  |      |   |  |
| Frequency (MHz) |            |         |           |                      |                      |                       |                    |          |  |      |   |  |
| 20              | QPSK       | 1       | 0         | 15.87                | 15.75                | 15.65                 | 17.5               | 0        |  |      |   |  |
| 20              | QPSK       | 1       | 49        | 15.78                | 15.65                | 15.57                 |                    |          |  |      |   |  |
| 20              | QPSK       | 1       | 99        | 15.80                | 15.67                | 15.56                 |                    |          |  |      |   |  |
| 20              | QPSK       | 50      | 0         | 14.86                | 15.62                | 15.70                 |                    |          |  |      |   |  |
| 20              | QPSK       | 50      | 24        | 14.82                | 15.60                | 15.74                 | 16.5               | 1        |  |      |   |  |
| 20              | QPSK       | 50      | 50        | 14.89                | 15.77                | 15.71                 |                    |          |  |      |   |  |
| 20              | QPSK       | 100     | 0         | 14.92                | 15.61                | 15.69                 |                    |          |  |      |   |  |
| 20              | 16QAM      | 1       | 49        | 14.88                | 15.70                | 15.75                 |                    |          |  |      |   |  |
| 20              | 16QAM      | 1       | 99        | 14.80                | 15.67                | 15.61                 | 16.5               | 1        |  |      |   |  |
| 20              | 16QAM      | 50      | 0         | 14.75                | 15.60                | 15.72                 |                    |          |  |      |   |  |
| 20              | 16QAM      | 50      | 24        | 13.71                | 14.69                | 14.57                 |                    |          |  |      |   |  |
| 20              | 16QAM      | 50      | 50        | 13.75                | 14.63                | 14.53                 |                    |          |  |      |   |  |
| 20              | 16QAM      | 100     | 0         | 13.81                | 14.58                | 14.52                 | 15.5               | 2        |  |      |   |  |
| Channel         |            |         |           |                      |                      |                       |                    |          |  |      |   |  |
| Frequency (MHz) |            |         |           |                      |                      |                       |                    |          |  |      |   |  |
| 15              | QPSK       | 1       | 0         | 15.73                | 15.52                | 15.54                 |                    |          |  | 17.5 | 0 |  |
| 15              | QPSK       | 1       | 37        | 15.67                | 15.56                | 15.46                 |                    |          |  |      |   |  |
| 15              | QPSK       | 1       | 74        | 15.68                | 15.59                | 15.41                 |                    |          |  |      |   |  |
| 15              | QPSK       | 36      | 0         | 14.75                | 15.60                | 15.65                 |                    |          |  |      |   |  |
| 15              | QPSK       | 36      | 20        | 14.69                | 15.68                | 15.61                 | 16.5               | 1        |  |      |   |  |
| 15              | QPSK       | 36      | 39        | 14.80                | 15.72                | 15.61                 |                    |          |  |      |   |  |
| 15              | QPSK       | 75      | 0         | 14.79                | 15.71                | 15.57                 |                    |          |  |      |   |  |
| 15              | 16QAM      | 1       | 0         | 14.73                | 15.69                | 15.52                 | 16.5               | 1        |  |      |   |  |
| 15              | 16QAM      | 1       | 37        | 14.74                | 15.74                | 15.70                 |                    |          |  |      |   |  |
| 15              | 16QAM      | 1       | 74        | 14.75                | 15.65                | 15.47                 |                    |          |  |      |   |  |
| 15              | 16QAM      | 36      | 0         | 13.67                | 14.68                | 14.54                 |                    |          |  |      |   |  |
| 15              | 16QAM      | 36      | 20        | 13.60                | 14.57                | 14.47                 | 15.5               | 2        |  |      |   |  |
| 15              | 16QAM      | 36      | 39        | 13.61                | 14.58                | 14.46                 |                    |          |  |      |   |  |
| 15              | 16QAM      | 75      | 0         | 13.69                | 14.63                | 14.50                 |                    |          |  |      |   |  |
| Channel         |            |         |           |                      |                      |                       |                    |          |  |      |   |  |
| Frequency (MHz) |            |         |           |                      |                      |                       |                    |          |  |      |   |  |
| 10              | QPSK       | 1       | 0         | 15.84                | 15.59                | 15.50                 | 17.5               | 0        |  |      |   |  |
| 10              | QPSK       | 1       | 25        | 15.68                | 15.62                | 15.50                 |                    |          |  |      |   |  |
| 10              | QPSK       | 1       | 49        | 15.77                | 15.67                | 15.50                 |                    |          |  |      |   |  |
| 10              | QPSK       | 25      | 0         | 14.76                | 15.69                | 15.58                 |                    |          |  |      |   |  |
| 10              | QPSK       | 25      | 12        | 14.68                | 15.69                | 15.68                 | 16.5               | 1        |  |      |   |  |
| 10              | QPSK       | 25      | 25        | 14.78                | 15.71                | 15.60                 |                    |          |  |      |   |  |
| 10              | QPSK       | 50      | 0         | 14.81                | 15.78                | 15.54                 |                    |          |  |      |   |  |
| 10              | 16QAM      | 1       | 0         | 14.69                | 15.66                | 15.50                 |                    |          |  |      |   |  |
| 10              | 16QAM      | 1       | 49        | 14.73                | 15.68                | 15.61                 | 16.5               | 1        |  |      |   |  |
| 10              | 16QAM      | 1       | 99        | 14.77                | 15.69                | 15.60                 |                    |          |  |      |   |  |
| 10              | 16QAM      | 1       | 12        | 14.78                | 15.60                | 15.52                 |                    |          |  |      |   |  |
| 10              | 16QAM      | 1       | 24        | 14.67                | 15.58                | 15.48                 |                    |          |  |      |   |  |
| 10              | 16QAM      | 12      | 0         | 13.74                | 14.60                | 14.55                 | 15.5               | 2        |  |      |   |  |
| 10              | 16QAM      | 12      | 7         | 13.65                | 14.58                | 14.47                 |                    |          |  |      |   |  |
| 10              | 16QAM      | 12      | 13        | 13.61                | 14.57                | 14.44                 |                    |          |  |      |   |  |
| 10              | 16QAM      | 25      | 0         | 13.70                | 14.59                | 14.48                 |                    |          |  |      |   |  |
| Channel         |            |         |           |                      |                      |                       |                    |          |  |      |   |  |
| Frequency (MHz) |            |         |           |                      |                      |                       |                    |          |  |      |   |  |
| 5               | QPSK       | 1       | 0         | 15.82                | 15.61                | 15.57                 | 17.5               | 0        |  |      |   |  |
| 5               | QPSK       | 1       | 12        | 15.67                | 15.60                | 15.46                 |                    |          |  |      |   |  |
| 5               | QPSK       | 1       | 24        | 15.76                | 15.65                | 15.50                 |                    |          |  |      |   |  |
| 5               | QPSK       | 12      | 0         | 14.77                | 15.71                | 15.65                 |                    |          |  |      |   |  |
| 5               | QPSK       | 12      | 7         | 14.71                | 15.71                | 15.60                 | 16.5               | 1        |  |      |   |  |
| 5               | QPSK       | 12      | 13        | 14.74                | 15.69                | 15.56                 |                    |          |  |      |   |  |
| 5               | QPSK       | 25      | 0         | 14.81                | 15.67                | 15.56                 |                    |          |  |      |   |  |
| 5               | 16QAM      | 1       | 0         | 14.63                | 15.70                | 15.47                 |                    |          |  |      |   |  |
| 5               | 16QAM      | 1       | 12        | 14.78                | 15.60                | 15.52                 | 16.5               | 1        |  |      |   |  |
| 5               | 16QAM      | 1       | 24        | 14.67                | 15.58                | 15.48                 |                    |          |  |      |   |  |
| 5               | 16QAM      | 12      | 0         | 13.74                | 14.60                | 14.55                 |                    |          |  |      |   |  |
| 5               | 16QAM      | 12      | 7         | 13.65                | 14.58                | 14.47                 |                    |          |  |      |   |  |
| 5               | 16QAM      | 12      | 13        | 13.61                | 14.57                | 14.44                 | 15.5               | 2        |  |      |   |  |
| 5               | 16QAM      | 25      | 0         | 13.70                | 14.59                | 14.48                 |                    |          |  |      |   |  |
| Channel         |            |         |           |                      |                      |                       |                    |          |  |      |   |  |
| Frequency (MHz) |            |         |           |                      |                      |                       |                    |          |  |      |   |  |
| 3               | QPSK       | 1       | 0         | 15.77                | 15.62                | 15.56                 | 17.5               | 0        |  |      |   |  |
| 3               | QPSK       | 1       | 12        | 15.66                | 15.52                | 15.47                 |                    |          |  |      |   |  |
| 3               | QPSK       | 1       | 14        | 15.73                | 15.55                | 15.51                 |                    |          |  |      |   |  |
| 3               | QPSK       | 8       | 0         | 14.75                | 15.77                | 15.59                 |                    |          |  |      |   |  |
| 3               | QPSK       | 8       | 7         | 14.78                | 15.69                | 15.61                 | 16.5               | 1        |  |      |   |  |
| 3               | QPSK       | 8       | 13        | 14.76                | 15.65                | 15.61                 |                    |          |  |      |   |  |
| 3               | QPSK       | 15      | 0         | 14.79                | 15.68                | 15.64                 |                    |          |  |      |   |  |
| 3               | QPSK       | 15      | 7         | 14.75                | 15.61                | 15.58                 |                    |          |  |      |   |  |
| 3               | 16QAM      | 1       | 8         | 14.75                | 15.76                | 15.71                 | 16.5               | 1        |  |      |   |  |
| 3               | 16QAM      | 1       | 14        | 14.65                | 15.55                | 15.56                 |                    |          |  |      |   |  |
| 3               | 16QAM      | 8       | 0         | 14.66                | 15.66                | 15.54                 |                    |          |  |      |   |  |
| 3               | 16QAM      | 8       | 4         | 13.64                | 14.51                | 14.45                 |                    |          |  |      |   |  |
| 3               | 16QAM      | 8       | 7         | 13.60                | 14.45                | 14.43                 | 15.5               | 2        |  |      |   |  |
| 3               | 16QAM      | 8       | 13        | 13.62                | 14.43                | 14.40                 |                    |          |  |      |   |  |
| Channel         |            |         |           |                      |                      |                       |                    |          |  |      |   |  |
| Frequency (MHz) |            |         |           |                      |                      |                       |                    |          |  |      |   |  |
| 1.4             | QPSK       | 1       | 0         | 15.75                | 15.63                | 15.61                 | 17.5               | 0        |  |      |   |  |
| 1.4             | QPSK       | 1       | 3         | 15.66                | 15.52                | 15.44                 |                    |          |  |      |   |  |
| 1.4             | QPSK       | 1       | 5         | 15.69                | 15.59                | 15.41                 |                    |          |  |      |   |  |
| 1.4             | QPSK       | 3       | 0         | 15.79                | 15.67                | 15.62                 |                    |          |  |      |   |  |
| 1.4             | QPSK       | 3       | 1         | 15.73                | 15.60                | 15.67                 | 16.5               | 1        |  |      |   |  |
| 1.4             | QPSK       | 3       | 3         | 15.84                | 15.64                | 15.61                 |                    |          |  |      |   |  |
| 1.4             | QPSK       | 6       | 0         | 14.81                | 15.74                | 15.65                 |                    |          |  |      |   |  |
| 1.4             | 16QAM      | 1       | 0         | 14.71                | 15.69                | 15.54                 |                    |          |  |      |   |  |
| 1.4             | 16QAM      | 1       | 2         | 14.75                | 15.72                | 15.56                 | 16.5               | 1        |  |      |   |  |
| 1.4             | 16QAM      | 1       | 5         | 14.72                | 15.59                | 15.48                 |                    |          |  |      |   |  |
| 1.4             | 16QAM      | 3       | 0         | 14.66                | 15.64                | 15.46                 |                    |          |  |      |   |  |
| 1.4             | 16QAM      | 3       | 1         | 14.60                | 15.65                | 15.43                 |                    |          |  |      |   |  |
| 1.4             | 16QAM      | 3       | 3         | 14.69                | 15.59                | 15.49                 | 15.5               | 2        |  |      |   |  |
| 1.4             | 16QAM      | 5       | 0         | 13.68                | 14.54                | 14.49                 |                    |          |  |      |   |  |

| Band 4          |            |         |           |                      |                      |                       |                    |          |  |  |  |  |
|-----------------|------------|---------|-----------|----------------------|----------------------|-----------------------|--------------------|----------|--|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Mid Ch / Freq. | Power High Ch / Freq. | Turn-up time (sec) | MFR (dB) |  |  |  |  |
| Channel         |            |         |           |                      |                      |                       |                    |          |  |  |  |  |
| Frequency (MHz) |            |         |           |                      |                      |                       |                    |          |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 14.88                | 14.60                | 15.65                 | 16.5               | 0        |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 15.01                | 14.67                | 15.62                 |                    |          |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 14.96                | 14.59                | 15.64                 |                    |          |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 14.16                | 13.79                | 15.06                 |                    |          |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 14.15                | 13.78                | 14.82                 | 15.5               | 1        |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 14.07                | 13.75                | 14.68                 |                    |          |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 14.17                | 13.74                | 14.66                 |                    |          |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 14.37                | 13.98                | 15.18                 |                    |          |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 14.34                | 13.94                | 15.07                 | 15.5               | 1        |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 14.18                | 13.85                | 14.87                 |                    |          |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 13.26                | 12.81                | 14.09                 |                    |          |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 13.20                | 12.83                | 14.04                 |                    |          |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 13.14                | 12.79                | 13.91                 | 14.5               | 2        |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 13.26                | 12.83                | 14.01                 |                    |          |  |  |  |  |
| Channel         |            |         |           |                      |                      |                       |                    |          |  |  |  |  |
| Frequency (MHz) |            |         |           |                      |                      |                       |                    |          |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 14.74                | 14.53                | 15.73                 | 16.5               | 0        |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 14.90                | 14.89                | 15.75                 |                    |          |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 14.88                | 14.54                | 15.69                 |                    |          |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 14.05                | 13.72                | 14.67                 |                    |          |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 14.06                | 13.68                | 14.63                 | 15.5               | 1        |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 13.99                | 13.61                | 14.62                 |                    |          |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 14.07                | 13.68                | 14.61                 |                    |          |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 14.24                | 13.89                | 15.08                 |                    |          |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 14.22                | 13.81                | 14.96                 | 15.5               | 1        |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 14.11                | 13.81                | 14.69                 |                    |          |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 13.24                | 12.78                | 14.06                 |                    |          |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 13.07                | 12.75                | 13.99                 |                    |          |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 13.01                | 12.75                | 13.81                 | 14.5               | 2        |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 13.12                | 12.72                | 13.99                 |                    |          |  |  |  |  |
| Channel         |            |         |           |                      |                      |                       |                    |          |  |  |  |  |
| Frequency (MHz) |            |         |           |                      |                      |                       |                    |          |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 14.85                | 14.51                | 15.64                 | 16.5               | 0        |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 14.95                | 14.62                | 15.76                 |                    |          |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 14.87                | 14.58                | 15.77                 |                    |          |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 14.11                | 13.71                | 15.03                 |                    |          |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 14.03                | 13.64                | 14.78                 | 15.5               | 1        |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 14.08                | 13.75                | 14.81                 |                    |          |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 14.04                | 13.71                | 14.64                 |                    |          |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 14.26                | 13.84                | 15.03                 |                    |          |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 14.27                | 13.75                | 14.65                 | 15.5               | 1        |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 14.05                | 13.73                | 14.93                 |                    |          |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 13.15                | 12.78                | 14.05                 |                    |          |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 13.10                | 12.7                 |                       | 14.5               | 2        |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 13.02                | 12.73                |                       |                    |          |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 13.21                | 12.75                | 13.87                 |                    |          |  |  |  |  |
| Channel         |            |         |           |                      |                      |                       |                    |          |  |  |  |  |
| Frequency (MHz) |            |         |           |                      |                      |                       |                    |          |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 14.73                | 14.56                | 15.77                 | 16.5               | 0        |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 14.87                | 14.58                | 15.68                 |                    |          |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 14.84                | 14.53                | 15.73                 |                    |          |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 14.03                | 13.70                | 14.95                 |                    |          |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 14.06                | 13.68                | 14.81                 | 15.5               | 1        |  |  |  |  |
| 5               | QPSK       | 12      | 14        | 14.05                | 13.68                | 14.84                 |                    |          |  |  |  |  |
| 5               | QPSK       | 24      | 0         | 14.03                | 13.68                | 14.82                 |                    |          |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 14.33                | 13.92                | 15.04                 |                    |          |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 14.30                | 13.80                | 15.02                 | 15.5               | 1        |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 14.08                | 13.77                | 14.91                 |                    |          |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 13.14                | 12.78                | 14.05                 |                    |          |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 13.07                | 12.75                | 13.92                 |                    |          |  |  |  |  |
| 5               | 16QAM      | 12      | 14        | 13.10                | 12.70                | 13.85                 | 14.5               | 2        |  |  |  |  |
| 5               | 16QAM      | 24      | 0         | 13.20                | 12.70                | 13.82                 |                    |          |  |  |  |  |
| 5               | 16QAM      | 24      | 12        | 13.20                | 12.70                | 13.82                 |                    |          |  |  |  |  |
| 5               | 16QAM      | 50      | 0         | 13.20                | 12.73                | 13.87                 |                    |          |  |  |  |  |
| Channel         |            |         |           |                      |                      |                       |                    |          |  |  |  |  |
| Frequency (MHz) |            |         |           |                      |                      |                       |                    |          |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 17.115               | 17.025               | 19.53                 | 16.5               | 0        |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 16.84                | 16.47                | 19.78                 |                    |          |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 16.84                | 16.43                | 19.73                 |                    |          |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 16.88                | 16.51                | 19.71                 |                    |          |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 14.10                | 13.73                | 15.02                 | 15.5               | 1        |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 14.06                | 13.68                | 14.88                 |                    |          |  |  |  |  |
| 3               | QPSK       | 8       | 8         | 13.93                | 13.62                | 14.77                 |                    |          |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 14.13                | 13.71                | 14.87                 |                    |          |  |  |  |  |
| 3               | QPSK       | 8       | 8         | 13.90                | 13.59                | 14.75                 | 15.5               | 1        |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 14.25                | 13.88                | 15.01                 |                    |          |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 14.14                | 13.73                | 14.87                 |                    |          |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 14.09                | 13.73                | 14.84                 |                    |          |  |  |  |  |
| 3               | QPSK       | 8       | 8         | 13.92                | 13.61                | 14.76                 | 14.5               | 2        |  |  |  |  |
| 3               | QPSK       | 8       | 8         | 13.09                | 12.68                | 13.95                 |                    |          |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 13.00                | 12.69                | 13.80                 |                    |          |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 13.03                | 12.74                | 13.93                 |                    |          |  |  |  |  |
| Channel         |            |         |           |                      |                      |                       |                    |          |  |  |  |  |
| Frequency (MHz) |            |         |           |                      |                      |                       |                    |          |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 16.967               | 16.975               | 20.081                | 16.5               | 0        |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 17.017               | 17.025               | 19.53                 |                    |          |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 16.74                | 16.47                | 19.83                 |                    |          |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 16.82                | 16.48                | 19.88                 |                    |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 16.89                | 16.56                | 19.77                 | 16.5               | 0        |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 16.92                | 16.76                | 19.88                 |                    |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 16.98                | 16.88                | 19.86                 |                    |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 16.92                | 16.61                | 19.83                 |                    |          |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 14.04                | 13.70                | 15.02                 | 15.5               | 1        |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 14.04                | 13.69                | 14.99                 |                    |          |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 14.22                | 13.91                | 15.09                 |                    |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 14.22                | 13.90                | 14.96                 |                    |          |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 14.11                | 13.79                | 14.99                 | 15.5               | 1        |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 14.02                | 13.75                | 14.96                 |                    |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 14.08                | 13.69                | 14.96                 |                    |          |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 14.07                | 13.64                | 14.94                 |                    |          |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 13.16                | 12.71                | 13.94                 | 14.5               | 2        |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 13.16                | 12.71                | 13.94                 |                    |          |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 13.16                | 12.71                | 13.94                 |                    |          |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 13.16                | 12.71                | 13.94                 |                    |          |  |  |  |  |



| Band 13         |            |         |           |                         |                            |                          |                        |          |  |
|-----------------|------------|---------|-----------|-------------------------|----------------------------|--------------------------|------------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low Ch / Freq. | Power<br>Middle Ch / Freq. | Power<br>High Ch / Freq. | Time-up<br>limit (sec) | MPR (dB) |  |
| Channel         |            |         |           |                         |                            |                          |                        |          |  |
| Frequency (MHz) |            |         |           |                         |                            |                          |                        |          |  |
| 78.2            |            |         |           |                         |                            |                          |                        |          |  |
| 10              | QPSK       | 1       | 0         | 23.40                   |                            |                          | 24                     | 0        |  |
| 10              | QPSK       | 1       | 25        | 23.28                   |                            |                          |                        |          |  |
| 10              | QPSK       | 1       | 49        | 23.21                   |                            |                          |                        |          |  |
| 10              | QPSK       | 25      | 0         | 22.48                   |                            |                          | 23                     | 1        |  |
| 10              | QPSK       | 25      | 12        | 22.30                   |                            |                          |                        |          |  |
| 10              | QPSK       | 25      | 25        | 22.23                   |                            |                          |                        |          |  |
| 10              | QPSK       | 50      | 0         | 22.02                   |                            |                          | 23                     | 1        |  |
| 10              | 16QAM      | 1       | 0         | 22.57                   |                            |                          |                        |          |  |
| 10              | 16QAM      | 1       | 25        | 22.43                   |                            |                          |                        |          |  |
| 10              | 16QAM      | 1       | 49        | 22.43                   |                            |                          | 22                     | 2        |  |
| 10              | 16QAM      | 25      | 0         | 21.48                   |                            |                          |                        |          |  |
| 10              | 16QAM      | 25      | 12        | 21.48                   |                            |                          |                        |          |  |
| 10              | 16QAM      | 25      | 25        | 21.31                   |                            |                          | 22                     | 2        |  |
| 10              | 16QAM      | 50      | 0         | 21.38                   |                            |                          |                        |          |  |
| Channel         |            |         |           |                         |                            |                          |                        |          |  |
| Frequency (MHz) |            |         |           |                         |                            |                          |                        |          |  |
| 23.605          |            |         |           |                         |                            |                          |                        |          |  |
| 5               | QPSK       | 1       | 0         | 23.35                   | 23.26                      | 23.31                    | 24                     | 0        |  |
| 5               | QPSK       | 1       | 12        | 23.18                   | 23.19                      | 23.11                    |                        |          |  |
| 5               | QPSK       | 1       | 24        | 23.01                   | 23.02                      | 23.09                    |                        |          |  |
| 5               | QPSK       | 12      | 0         | 22.31                   | 22.38                      | 22.29                    | 23                     | 1        |  |
| 5               | QPSK       | 12      | 7         | 22.16                   | 22.18                      | 22.20                    |                        |          |  |
| 5               | QPSK       | 12      | 13        | 22.08                   | 22.02                      | 22.08                    |                        |          |  |
| 5               | QPSK       | 25      | 0         | 22.13                   | 22.26                      | 22.13                    | 23                     | 1        |  |
| 5               | 16QAM      | 1       | 0         | 22.53                   | 22.48                      | 22.47                    |                        |          |  |
| 5               | 16QAM      | 1       | 12        | 22.39                   | 22.33                      | 22.36                    |                        |          |  |
| 5               | 16QAM      | 1       | 24        | 22.33                   | 22.24                      | 22.26                    | 22                     | 2        |  |
| 5               | 16QAM      | 12      | 0         | 21.40                   | 21.31                      | 21.45                    |                        |          |  |
| 5               | 16QAM      | 12      | 7         | 21.36                   | 21.41                      | 21.36                    |                        |          |  |
| 5               | 16QAM      | 12      | 13        | 21.21                   | 21.17                      | 21.28                    | 22                     | 2        |  |
| 5               | 16QAM      | 25      | 0         | 21.20                   | 21.32                      | 21.32                    |                        |          |  |

| Band 26         |            |         |           |                      |                         |                       |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Middle Ch / Freq. | Power High Ch / Freq. | Time-up limit (sec) | MPR (dB) |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 816.5           |            |         |           |                      |                         |                       |                     |          |  |
| 15              | QPSK       | 1       | 0         | 22.84                | 22.84                   | 22.80                 | 24                  | 0        |  |
| 15              | QPSK       | 1       | 31        | 22.78                | 22.87                   | 22.83                 |                     |          |  |
| 15              | QPSK       | 1       | 74        | 22.71                | 22.91                   | 22.75                 |                     |          |  |
| 15              | QPSK       | 36      | 0         | 21.74                | 21.91                   | 21.83                 | 23                  | 1        |  |
| 15              | QPSK       | 36      | 20        | 21.71                | 21.88                   | 21.70                 |                     |          |  |
| 15              | QPSK       | 36      | 39        | 21.70                | 21.80                   | 21.69                 |                     |          |  |
| 15              | QPSK       | 75      | 0         | 21.81                | 21.88                   | 21.87                 | 23                  | 1        |  |
| 15              | 16QAM      | 1       | 0         | 21.96                | 22.02                   | 21.94                 |                     |          |  |
| 15              | 16QAM      | 1       | 37        | 21.77                | 21.90                   | 21.75                 |                     |          |  |
| 15              | 16QAM      | 1       | 74        | 21.63                | 21.99                   | 21.84                 | 22                  | 2        |  |
| 15              | 16QAM      | 36      | 0         | 21.01                | 21.06                   | 20.93                 |                     |          |  |
| 15              | 16QAM      | 36      | 20        | 20.82                | 21.00                   | 20.90                 |                     |          |  |
| 15              | 16QAM      | 36      | 39        | 20.83                | 20.92                   | 20.81                 | 22                  | 2        |  |
| 15              | 16QAM      | 75      | 0         | 20.79                | 20.99                   | 20.94                 |                     |          |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 819             |            |         |           |                      |                         |                       |                     |          |  |
| 10              | QPSK       | 1       | 0         | 22.73                | 22.88                   | 22.85                 | 24                  | 0        |  |
| 10              | QPSK       | 1       | 26        | 22.72                | 22.88                   | 22.74                 |                     |          |  |
| 10              | QPSK       | 1       | 49        | 22.66                | 22.85                   | 22.62                 |                     |          |  |
| 10              | QPSK       | 25      | 0         | 21.60                | 21.61                   | 21.65                 | 23                  | 1        |  |
| 10              | QPSK       | 25      | 12        | 21.57                | 21.78                   | 21.64                 |                     |          |  |
| 10              | QPSK       | 25      | 25        | 21.65                | 21.65                   | 21.68                 |                     |          |  |
| 10              | QPSK       | 50      | 0         | 21.67                | 21.62                   | 21.52                 | 23                  | 1        |  |
| 10              | 16QAM      | 1       | 0         | 21.87                | 21.87                   | 21.76                 |                     |          |  |
| 10              | 16QAM      | 1       | 25        | 21.65                | 21.81                   | 21.67                 |                     |          |  |
| 10              | 16QAM      | 1       | 49        | 21.86                | 21.91                   | 21.78                 | 22                  | 2        |  |
| 10              | 16QAM      | 25      | 0         | 20.88                | 20.89                   | 20.88                 |                     |          |  |
| 10              | 16QAM      | 25      | 12        | 20.75                | 20.84                   | 20.87                 |                     |          |  |
| 10              | 16QAM      | 25      | 25        | 20.72                | 20.80                   | 20.73                 | 22                  | 2        |  |
| 10              | 16QAM      | 50      | 0         | 20.62                | 20.93                   | 20.83                 |                     |          |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 816.5           |            |         |           |                      |                         |                       |                     |          |  |
| 5               | QPSK       | 1       | 0         | 22.74                | 22.81                   | 22.81                 | 24                  | 0        |  |
| 5               | QPSK       | 1       | 12        | 22.69                | 22.81                   | 22.72                 |                     |          |  |
| 5               | QPSK       | 1       | 24        | 22.64                | 22.77                   | 22.68                 |                     |          |  |
| 5               | QPSK       | 12      | 0         | 21.70                | 21.88                   | 21.78                 | 23                  | 1        |  |
| 5               | QPSK       | 12      | 7         | 21.54                | 21.74                   | 21.58                 |                     |          |  |
| 5               | QPSK       | 12      | 13        | 21.62                | 21.67                   | 21.52                 |                     |          |  |
| 5               | QPSK       | 25      | 0         | 21.65                | 21.77                   | 21.60                 | 23                  | 1        |  |
| 5               | 16QAM      | 1       | 0         | 21.88                | 21.91                   | 21.91                 |                     |          |  |
| 5               | 16QAM      | 1       | 12        | 21.68                | 21.78                   | 21.71                 |                     |          |  |
| 5               | 16QAM      | 1       | 24        | 21.88                | 21.86                   | 21.84                 | 22                  | 2        |  |
| 5               | 16QAM      | 12      | 0         | 20.87                | 20.97                   | 20.85                 |                     |          |  |
| 5               | 16QAM      | 12      | 7         | 20.86                | 20.82                   | 20.85                 |                     |          |  |
| 5               | 16QAM      | 12      | 13        | 20.86                | 20.87                   | 20.77                 | 22                  | 2        |  |
| 5               | 16QAM      | 25      | 0         | 20.73                | 20.97                   | 20.81                 |                     |          |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 2670.6          |            |         |           |                      |                         |                       |                     |          |  |
| 3               | QPSK       | 1       | 0         | 22.77                | 22.81                   | 22.83                 | 24                  | 0        |  |
| 3               | QPSK       | 1       | 8         | 22.60                | 22.66                   | 22.78                 |                     |          |  |
| 3               | QPSK       | 1       | 14        | 22.65                | 22.79                   | 22.71                 |                     |          |  |
| 3               | QPSK       | 8       | 0         | 21.70                | 21.73                   | 21.80                 | 23                  | 1        |  |
| 3               | QPSK       | 8       | 4         | 21.61                | 21.76                   | 21.67                 |                     |          |  |
| 3               | QPSK       | 8       | 7         | 21.65                | 21.70                   | 21.60                 |                     |          |  |
| 3               | QPSK       | 15      | 0         | 21.76                | 21.80                   | 21.59                 | 23                  | 1        |  |
| 3               | 16QAM      | 1       | 0         | 21.85                | 21.88                   | 21.84                 |                     |          |  |
| 3               | 16QAM      | 1       | 8         | 21.64                | 21.74                   | 21.62                 |                     |          |  |
| 3               | 16QAM      | 1       | 14        | 21.76                | 21.95                   | 21.90                 | 22                  | 2        |  |
| 3               | 16QAM      | 8       | 0         | 20.92                | 20.97                   | 20.78                 |                     |          |  |
| 3               | 16QAM      | 8       | 4         | 20.68                | 20.87                   | 20.83                 |                     |          |  |
| 3               | 16QAM      | 8       | 7         | 20.80                | 20.76                   | 20.68                 | 22                  | 2        |  |
| 3               | 16QAM      | 15      | 0         | 20.77                | 20.80                   | 20.57                 |                     |          |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 2669.7          |            |         |           |                      |                         |                       |                     |          |  |
| 1.4             | QPSK       | 1       | 0         | 22.77                | 22.77                   | 22.73                 | 24                  | 0        |  |
| 1.4             | QPSK       | 1       | 3         | 22.70                | 22.68                   | 22.69                 |                     |          |  |
| 1.4             | QPSK       | 1       | 5         | 22.57                | 22.79                   | 22.59                 |                     |          |  |
| 1.4             | QPSK       | 3       | 0         | 22.57                | 22.75                   | 22.81                 | 23                  | 1        |  |
| 1.4             | QPSK       | 3       | 1         | 22.60                | 22.81                   | 22.60                 |                     |          |  |
| 1.4             | QPSK       | 3       | 3         | 22.63                | 22.82                   | 22.55                 |                     |          |  |
| 1.4             | QPSK       | 6       | 0         | 21.72                | 21.82                   | 21.82                 | 23                  | 1        |  |
| 1.4             | 16QAM      | 1       | 0         | 21.89                | 21.95                   | 21.87                 |                     |          |  |
| 1.4             | 16QAM      | 1       | 3         | 21.67                | 21.84                   | 21.80                 |                     |          |  |
| 1.4             | 16QAM      | 1       | 5         | 21.83                | 21.84                   | 21.85                 | 23                  | 1        |  |
| 1.4             | 16QAM      | 3       | 0         | 21.85                | 21.89                   | 21.88                 |                     |          |  |
| 1.4             | 16QAM      | 3       | 1         | 21.79                | 21.90                   | 21.77                 |                     |          |  |
| 1.4             | 16QAM      | 3       | 3         | 21.70                | 21.77                   | 21.66                 | 22                  | 2        |  |
| 1.4             | 16QAM      | 6       | 0         | 20.67                | 20.86                   | 20.86                 |                     |          |  |

| Band 66         |            |         |           |                      |                         |                       |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Middle Ch / Freq. | Power High Ch / Freq. | Time-up limit (sec) | MPR (dB) |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 1720            |            |         |           |                      |                         |                       |                     |          |  |
| 20              | QPSK       | 1       | 0         | 15.57                | 15.55                   | 15.65                 | 17.5                | 0        |  |
| 20              | QPSK       | 1       | 40        | 15.68                | 15.53                   | 15.71                 |                     |          |  |
| 20              | QPSK       | 1       | 99        | 15.68                | 15.51                   | 15.78                 |                     |          |  |
| 20              | QPSK       | 50      | 0         | 14.64                | 15.54                   | 15.74                 | 16.5                | 1        |  |
| 20              | QPSK       | 50      | 24        | 14.63                | 15.36                   | 15.68                 |                     |          |  |
| 20              | QPSK       | 100     | 0         | 14.63                | 15.47                   | 15.73                 |                     |          |  |
| 20              | QPSK       | 1       | 40        | 14.73                | 15.52                   | 15.79                 | 16.5                | 1        |  |
| 20              | QPSK       | 1       | 99        | 14.76                | 15.55                   | 15.76                 |                     |          |  |
| 20              | QPSK       | 50      | 24        | 14.62                | 15.42                   | 15.68                 |                     |          |  |
| 20              | QPSK       | 50      | 24        | 13.76                | 14.58                   | 15.32                 | 15.5                | 2        |  |
| 20              | QPSK       | 50      | 50        | 13.80                | 14.49                   | 15.28                 |                     |          |  |
| 20              | QPSK       | 1       | 99        | 13.74                | 14.53                   | 15.36                 |                     |          |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 1720            |            |         |           |                      |                         |                       |                     |          |  |
| 15              | QPSK       | 1       | 0         | 15.57                | 15.55                   | 15.65                 | 17.5                | 0        |  |
| 15              | QPSK       | 1       | 40        | 15.63                | 15.51                   | 15.67                 |                     |          |  |
| 15              | QPSK       | 1       | 99        | 15.60                | 15.49                   | 15.71                 |                     |          |  |
| 15              | QPSK       | 1       | 74        | 15.58                | 15.47                   | 15.72                 | 16.5                | 1        |  |
| 15              | QPSK       | 30      | 0         | 14.51                | 15.35                   | 15.71                 |                     |          |  |
| 15              | QPSK       | 30      | 40        | 14.50                | 15.32                   | 15.67                 |                     |          |  |
| 15              | QPSK       | 30      | 99        | 14.56                | 15.27                   | 15.54                 | 16.5                | 1        |  |
| 15              | QPSK       | 75      | 0         | 14.58                | 15.41                   | 15.66                 |                     |          |  |
| 15              | QPSK       | 1       | 99        | 14.58                | 15.36                   | 15.61                 |                     |          |  |
| 15              | QPSK       | 1       | 37        | 14.65                | 15.46                   | 15.61                 | 16.5                | 1        |  |
| 15              | QPSK       | 1       | 74        | 14.60                | 15.48                   | 15.67                 |                     |          |  |
| 15              | QPSK       | 30      | 99        | 13.72                | 14.58                   | 15.33                 |                     |          |  |
| 15              | QPSK       | 30      | 20        | 13.68                | 14.51                   | 15.28                 | 15.5                | 2        |  |
| 15              | QPSK       | 75      | 0         | 13.72                | 14.54                   | 15.65                 |                     |          |  |
| 15              | QPSK       | 1       | 99        | 13.69                | 14.49                   | 15.32                 |                     |          |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 1720            |            |         |           |                      |                         |                       |                     |          |  |
| 10              | QPSK       | 1       | 0         | 15.57                | 15.47                   | 15.64                 | 17.0                | 0        |  |
| 10              | QPSK       | 1       | 25        | 15.59                | 15.48                   | 15.60                 |                     |          |  |
| 10              | QPSK       | 1       | 40        | 15.61                | 15.48                   | 15.72                 |                     |          |  |
| 10              | QPSK       | 1       | 74        | 15.60                | 15.45                   | 15.69                 | 16.5                | 1        |  |
| 10              | QPSK       | 20      | 12        | 14.57                | 15.39                   | 15.64                 |                     |          |  |
| 10              | QPSK       | 25      | 26        | 14.52                | 15.26                   | 15.41                 |                     |          |  |
| 10              | QPSK       | 25      | 26        | 14.52                | 15.26                   | 15.41                 | 16.5                | 1        |  |
| 10              | QPSK       | 1       | 0         | 14.76                | 15.46                   | 15.78                 |                     |          |  |
| 10              | QPSK       | 1       | 25        | 14.64                | 15.44                   | 15.66                 |                     |          |  |
| 10              | QPSK       | 1       | 40        | 14.63                | 15.43                   | 15.64                 | 16.5                | 1        |  |
| 10              | QPSK       | 20      | 0         | 13.67                | 15.33                   | 15.78                 |                     |          |  |
| 10              | QPSK       | 25      | 12        | 13.60                | 14.55                   | 15.73                 |                     |          |  |
| 10              | QPSK       | 25      | 12        | 13.69                | 14.49                   | 15.61                 | 15.5                | 2        |  |
| 10              | QPSK       | 50      | 0         | 13.59                | 14.50                   | 15.75                 |                     |          |  |
| 10              | QPSK       | 1       | 99        | 13.59                | 14.50                   | 15.75                 |                     |          |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 1720            |            |         |           |                      |                         |                       |                     |          |  |
| 5               | QPSK       | 1       | 0         | 15.53                | 15.49                   | 15.57                 | 17.5                | 0        |  |
| 5               | QPSK       | 1       | 12        | 15.57                | 15.48                   | 15.63                 |                     |          |  |
| 5               | QPSK       | 1       | 25        | 15.60                | 15.48                   | 15.65                 |                     |          |  |
| 5               | QPSK       | 12      | 0         | 14.57                | 15.43                   | 15.68                 | 16.5                | 1        |  |
| 5               | QPSK       | 12      | 12        | 14.61                | 15.37                   | 15.61                 |                     |          |  |
| 5               | QPSK       | 12      | 25        | 14.58                | 15.33                   | 15.54                 |                     |          |  |
| 5               | QPSK       | 20      | 0         | 14.54                | 15.40                   | 15.65                 | 16.5                | 1        |  |
| 5               | QPSK       | 1       | 0         | 14.78                | 15.49                   | 15.68                 |                     |          |  |
| 5               | QPSK       | 1       | 24        | 14.81                | 15.48                   | 15.68                 |                     |          |  |
| 5               | QPSK       | 1       | 24        | 14.68                | 15.50                   | 15.71                 | 16.5                | 1        |  |
| 5               | QPSK       | 12      | 0         | 13.63                | 14.57                   | 15.73                 |                     |          |  |
| 5               | QPSK       | 12      | 12        | 13.67                | 14.53                   | 15.70                 |                     |          |  |
| 5               | QPSK       | 12      | 12        | 13.67                | 14.53                   | 15.70                 | 15.5                | 2        |  |
| 5               | QPSK       | 14      | 13        | 13.76                | 14.55                   | 15.84                 |                     |          |  |
| 5               | QPSK       | 20      | 0         | 13.64                | 14.51                   | 15.74                 |                     |          |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 1720            |            |         |           |                      |                         |                       |                     |          |  |
| 3               | QPSK       | 1       | 0         | 15.54                | 15.49                   | 15.58                 | 17.0                | 0        |  |
| 3               | QPSK       | 1       | 12        | 15.60                | 15.48                   | 15.64                 |                     |          |  |
| 3               | QPSK       | 1       | 14        | 15.59                | 15.42                   | 15.65                 |                     |          |  |
| 3               | QPSK       | 8       | 0         | 14.61                | 15.43                   | 15.69                 | 16.5                | 1        |  |
| 3               | QPSK       | 8       | 8         | 14.59                | 15.39                   | 15.61                 |                     |          |  |
| 3               | QPSK       | 8       | 8         | 14.53                | 15.30                   | 15.46                 |                     |          |  |
| 3               | QPSK       | 10      | 0         | 14.57                | 15.37                   | 15.49                 | 16.5                | 1        |  |
| 3               | QPSK       | 1       | 0         | 14.63                | 15.44                   | 15.67                 |                     |          |  |
| 3               | QPSK       | 1       | 14        | 14.62                | 15.43                   | 15.62                 |                     |          |  |
| 3               | QPSK       | 1       | 14        | 14.62                | 15.44                   | 15.76                 | 15.5                | 2        |  |
| 3               | QPSK       | 8       | 4         | 13.63                | 14.45                   | 15.78                 |                     |          |  |
| 3               | QPSK       | 8       | 7         | 13.68                | 14.47                   | 15.64                 |                     |          |  |
| 3               | QPSK       | 8       | 7         | 13.68                | 14.52                   | 15.71                 | 15.5                | 2        |  |
| 3               | QPSK       | 10      | 0         | 13.67                | 14.45                   | 15.73                 |                     |          |  |
| 3               | QPSK       | 10      | 0         | 13.59                | 14.48                   | 15.74                 |                     |          |  |
| Channel         |            |         |           |                      |                         |                       |                     |          |  |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |  |
| 1720            |            |         |           |                      |                         |                       |                     |          |  |
| 1.4             | QPSK       | 1       | 0         | 15.53                | 15.49                   | 15.54                 | 17.0                | 0        |  |
| 1.4             | QPSK       | 1       | 12        | 15.60                | 15.48                   | 15.64                 |                     |          |  |
| 1.4             | QPSK       | 1       | 14        | 15.59                | 15.42                   | 15.65                 |                     |          |  |
| 1.4             | QPSK       | 1       | 8         | 15.57                | 15.38                   | 15.68                 | 16.5                | 1        |  |
| 1.4             | QPSK       | 3       | 0         | 15.51                | 15.40                   | 15.59                 |                     |          |  |
| 1.4             | QPSK       | 3       | 3         | 15.56                | 15.37                   | 15.56                 |                     |          |  |
| 1.4             | QPSK       | 3       | 3         | 15.56                | 15.29                   | 15.51                 | 16.5                | 1        |  |
| 1.4             | QPSK       | 1       | 0         | 14.52                | 15.40                   | 15.67                 |                     |          |  |
| 1.4             | QPSK       | 1       | 14        | 14.58                | 15.38                   | 15.62                 |                     |          |  |
| 1.4             | QPSK       | 1       | 8         | 14.61                | 15.38                   | 15.70                 | 15.5                | 1        |  |
| 1.4             | QPSK       | 1       | 14        | 14.70                | 15.44                   | 15.72                 |                     |          |  |
| 1.4             | QPSK       | 1       | 14        | 14.68                | 15.54                   | 15.73                 |                     |          |  |
| 1.4             | QPSK       | 3       | 0         | 14.73                | 15.48                   | 15.67                 | 15.5                | 2        |  |
| 1.4             | QPSK       | 3       | 3         | 14.73                | 15.43                   | 15.47                 |                     |          |  |
| 1.4             | QPSK       | 3       | 3         | 14.63                | 15.47                   | 15.47                 |                     |          |  |
| 1.4             | QPSK       | 8       | 0         | 13.59                | 14.48                   | 15.74                 | 15.5                | 2        |  |
| 1.4             | QPSK       | 8       | 8         | 13.59                | 14.48                   | 15.74                 |                     |          |  |
| 1.4             | QPSK       | 8       | 8         | 13.59                | 14.48                   | 15.74                 |                     |          |  |

| Band 38         |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 37850                 | 38000                    | 38150                  | 16                  | 0        |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |
| 20              | QPSK       | 1       | 0         | 14.98                 | 15.26                    | 15.19                  |                     |          |
| 20              | QPSK       | 1       | 49        | 15.03                 | 15.18                    | 15.12                  | 15                  | 1        |
| 20              | QPSK       | 1       | 99        | 15.04                 | 15.07                    | 15.01                  |                     |          |
| 20              | QPSK       | 50      | 0         | 14.26                 | 14.36                    | 14.27                  |                     |          |
| 20              | QPSK       | 50      | 24        | 14.31                 | 14.35                    | 14.30                  | 15                  | 1        |
| 20              | QPSK       | 50      | 50        | 14.28                 | 14.33                    | 14.20                  |                     |          |
| 20              | QPSK       | 100     | 0         | 14.06                 | 14.21                    | 14.15                  |                     |          |
| 20              | 16QAM      | 1       | 0         | 14.09                 | 14.15                    | 14.05                  | 15                  | 1        |
| 20              | 16QAM      | 1       | 49        | 14.04                 | 14.19                    | 14.11                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 13.95                 | 14.08                    | 13.97                  |                     |          |
| 20              | 16QAM      | 50      | 0         | 13.13                 | 13.23                    | 13.19                  | 14                  | 2        |
| 20              | 16QAM      | 50      | 24        | 13.08                 | 13.15                    | 13.12                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 12.97                 | 13.03                    | 12.95                  |                     |          |
| 20              | 16QAM      | 100     | 0         | 12.96                 | 13.06                    | 13.00                  | 16                  | 0        |
| Channel         |            |         |           | 37825                 | 38000                    | 38175                  |                     |          |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 14.83                 | 15.20                    | 15.08                  | 16                  | 0        |
| 15              | QPSK       | 1       | 37        | 14.98                 | 15.11                    | 15.09                  |                     |          |
| 15              | QPSK       | 1       | 74        | 14.98                 | 14.93                    | 14.92                  |                     |          |
| 15              | QPSK       | 36      | 0         | 14.15                 | 14.33                    | 14.22                  | 15                  | 1        |
| 15              | QPSK       | 36      | 20        | 14.16                 | 14.21                    | 14.16                  |                     |          |
| 15              | QPSK       | 36      | 39        | 14.14                 | 14.26                    | 14.06                  |                     |          |
| 15              | QPSK       | 75      | 0         | 13.92                 | 14.16                    | 14.07                  | 15                  | 1        |
| 15              | 16QAM      | 1       | 0         | 14.00                 | 14.06                    | 13.95                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 13.89                 | 14.06                    | 14.00                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 13.89                 | 13.99                    | 13.86                  | 14                  | 2        |
| 15              | 16QAM      | 36      | 0         | 12.99                 | 13.17                    | 13.09                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 13.03                 | 13.04                    | 13.06                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 12.86                 | 13.00                    | 12.90                  | 16                  | 0        |
| 15              | 16QAM      | 75      | 0         | 12.93                 | 12.94                    | 12.97                  |                     |          |
| Channel         |            |         |           | 37800                 | 38000                    | 38200                  |                     |          |
| Frequency (MHz) |            |         |           | 2575                  | 2595                     | 2615                   |                     |          |
| 10              | QPSK       | 1       | 0         | 14.83                 | 15.17                    | 15.12                  | 16                  | 0        |
| 10              | QPSK       | 1       | 25        | 14.94                 | 15.09                    | 15.02                  |                     |          |
| 10              | QPSK       | 1       | 49        | 14.98                 | 14.95                    | 14.86                  |                     |          |
| 10              | QPSK       | 25      | 0         | 14.15                 | 14.30                    | 14.20                  | 15                  | 1        |
| 10              | QPSK       | 25      | 12        | 14.19                 | 14.31                    | 14.19                  |                     |          |
| 10              | QPSK       | 25      | 25        | 14.21                 | 14.21                    | 14.11                  |                     |          |
| 10              | QPSK       | 50      | 0         | 13.99                 | 14.14                    | 14.04                  | 15                  | 1        |
| 10              | 16QAM      | 1       | 0         | 14.00                 | 14.07                    | 13.92                  |                     |          |
| 10              | 16QAM      | 1       | 25        | 13.99                 | 14.13                    | 14.03                  |                     |          |
| 10              | 16QAM      | 1       | 49        | 13.90                 | 14.04                    | 13.83                  | 14                  | 2        |
| 10              | 16QAM      | 25      | 0         | 12.99                 | 13.16                    | 13.11                  |                     |          |
| 10              | 16QAM      | 25      | 12        | 13.01                 | 13.05                    | 12.99                  |                     |          |
| 10              | 16QAM      | 25      | 25        | 12.88                 | 12.92                    | 12.83                  | 16                  | 0        |
| 10              | 16QAM      | 50      | 0         | 12.92                 | 13.01                    | 12.95                  |                     |          |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  |                     |          |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |          |
| 5               | QPSK       | 1       | 0         | 14.83                 | 15.17                    | 15.09                  | 16                  | 0        |
| 5               | QPSK       | 1       | 12        | 14.92                 | 15.14                    | 15.01                  |                     |          |
| 5               | QPSK       | 1       | 24        | 14.96                 | 14.94                    | 14.89                  |                     |          |
| 5               | QPSK       | 12      | 0         | 14.19                 | 14.23                    | 14.16                  | 15                  | 1        |
| 5               | QPSK       | 12      | 7         | 14.19                 | 14.31                    | 14.16                  |                     |          |
| 5               | QPSK       | 12      | 13        | 14.17                 | 14.21                    | 14.06                  |                     |          |
| 5               | QPSK       | 25      | 0         | 13.92                 | 14.12                    | 14.00                  | 15                  | 1        |
| 5               | 16QAM      | 1       | 0         | 13.94                 | 14.06                    | 13.95                  |                     |          |
| 5               | 16QAM      | 1       | 12        | 14.00                 | 14.15                    | 14.01                  |                     |          |
| 5               | 16QAM      | 1       | 24        | 13.81                 | 14.02                    | 13.92                  | 14                  | 2        |
| 5               | 16QAM      | 12      | 0         | 13.03                 | 13.14                    | 13.10                  |                     |          |
| 5               | 16QAM      | 12      | 7         | 12.99                 | 13.07                    | 13.03                  |                     |          |
| 5               | 16QAM      | 12      | 13        | 12.92                 | 12.99                    | 12.85                  | 16                  | 0        |
| 5               | 16QAM      | 25      | 0         | 12.93                 | 13.03                    | 12.96                  |                     |          |

## Reduced Power Mode for Body-worn&Extremity

| GSM850          |  | 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 | Tune-up Limit (dBm) | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   |  | 32.05                     | 32.11 | 32.01 |                     | 23.05                     | 23.11 | 23.01 |                     |
| GPRS 1 Tx slot  |  | 32.00                     | 32.09 | 31.95 | 33.00               | 23.00                     | 23.09 | 22.95 | 24.00               |
| GPRS 2 Tx slots |  | 29.92                     | 30.05 | 29.93 | 31.00               | 23.92                     | 24.05 | 23.93 | 25.00               |
| GPRS 3 Tx slots |  | 28.11                     | 28.23 | 28.00 | 29.50               | 23.85                     | 23.97 | 23.74 | 25.24               |
| GPRS 4 Tx slots |  | 26.03                     | 26.07 | 25.96 | 27.00               | 23.03                     | 23.07 | 22.96 | 24.00               |
| EDGE 1 Tx slot  |  | 25.41                     | 25.55 | 25.50 | 27.00               | 16.41                     | 16.55 | 16.50 | 18.00               |
| EDGE 2 Tx slots |  | 24.09                     | 24.22 | 24.18 | 26.00               | 16.09                     | 16.22 | 16.18 | 20.00               |
| EDGE 3 Tx slots |  | 22.01                     | 22.04 | 21.97 | 23.50               | 17.75                     | 17.78 | 17.71 | 18.24               |
| EDGE 4 Tx slots |  | 19.53                     | 19.59 | 19.59 | 21.00               | 16.53                     | 16.59 | 16.59 | 18.00               |

| GSM1900         |  | 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                    | 1880  | 1909.8 | Tune-up Limit (dBm) | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot   |  | 25.31                     | 25.56 | 25.50  |                     | 16.31                     | 16.56 | 16.50  |                     |
| GPRS 1 Tx slot  |  | 25.34                     | 25.37 | 25.33  | 27.00               | 16.34                     | 16.37 | 16.33  | 18.00               |
| GPRS 2 Tx slots |  | 22.11                     | 22.15 | 21.96  | 23.50               | 16.11                     | 16.15 | 15.96  | 17.50               |
| GPRS 3 Tx slots |  | 21.83                     | 21.88 | 21.78  | 23.00               | 17.57                     | 17.72 | 17.52  | 18.74               |
| GPRS 4 Tx slots |  | 20.48                     | 20.62 | 20.38  | 21.50               | 17.48                     | 17.62 | 17.38  | 18.50               |
| EDGE 1 Tx slot  |  | 25.55                     | 25.63 | 25.60  | 26.00               | 16.55                     | 16.63 | 16.60  | 17.00               |
| EDGE 2 Tx slots |  | 22.17                     | 22.40 | 22.33  | 24.00               | 16.17                     | 16.40 | 16.33  | 18.00               |
| EDGE 3 Tx slots |  | 21.87                     | 21.98 | 21.82  | 23.00               | 17.61                     | 17.72 | 17.56  | 18.74               |
| EDGE 4 Tx slots |  | 19.85                     | 19.91 | 19.88  | 20.50               | 16.85                     | 16.91 | 16.88  | 17.50               |

| Band            |                    | WCDMA II |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) | WCDMA V |       |       | Tune-up Limit (dBm) |
|-----------------|--------------------|----------|-------|--------|---------------------|----------|--------|--------|---------------------|---------|-------|-------|---------------------|
| TX Channel      |                    | 9262     | 9460  | 9538   |                     | 1312     | 1413   | 1513   |                     | 4132    | 4402  | 4233  |                     |
| Rx Channel      |                    | 9662     | 9800  | 9938   | Tune-up Limit (dBm) | 1537     | 1638   | 1738   |                     | 4357    | 4407  | 4468  |                     |
| Frequency (MHz) |                    | 1852.4   | 1880  | 1907.6 |                     | 1712.4   | 1732.6 | 1752.6 |                     | 826.4   | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 17.49    | 17.63 | 17.60  | 19.00               | 16.22    | 16.27  | 16.16  | 17.50               | 22.23   | 22.28 | 22.21 | 24.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 17.54    | 17.71 | 17.68  | 19.00               | 16.29    | 16.34  | 16.24  | 17.50               | 22.25   | 22.39 | 22.26 | 24.00               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 16.51    | 16.74 | 16.70  | 18.00               | 15.25    | 15.28  | 15.11  | 16.50               | 21.07   | 21.46 | 21.35 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 16.65    | 16.60 | 16.56  | 18.00               | 15.39    | 15.43  | 15.29  | 16.50               | 21.35   | 21.19 | 21.30 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 16.17    | 16.07 | 16.03  | 17.50               | 14.86    | 14.89  | 14.75  | 16.00               | 20.87   | 20.72 | 20.69 | 22.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 16.06    | 16.32 | 16.12  | 17.50               | 14.84    | 14.96  | 14.85  | 16.00               | 20.76   | 20.98 | 20.63 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 16.56    | 16.71 | 16.61  | 18.00               | 15.18    | 15.22  | 15.01  | 16.50               | 21.28   | 21.60 | 21.26 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 16.44    | 16.65 | 16.58  | 18.00               | 15.23    | 15.34  | 15.18  | 16.50               | 21.17   | 21.46 | 21.43 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 16.06    | 16.27 | 16.12  | 17.50               | 14.82    | 14.90  | 14.79  | 16.00               | 20.66   | 20.98 | 20.89 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 16.01    | 16.15 | 16.11  | 17.50               | 14.93    | 14.99  | 14.77  | 16.00               | 20.80   | 21.02 | 20.67 | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 16.41    | 16.54 | 16.46  | 18.00               | 15.23    | 15.37  | 15.26  | 16.50               | 21.09   | 21.28 | 21.00 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 14.48    | 14.62 | 14.53  | 16.00               | 13.20    | 13.25  | 13.08  | 14.50               | 19.29   | 19.10 | 19.25 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 15.42    | 15.58 | 15.39  | 17.00               | 14.37    | 14.41  | 14.20  | 15.50               | 20.09   | 20.14 | 20.10 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 14.57    | 14.67 | 14.60  | 16.00               | 13.26    | 13.38  | 13.16  | 14.50               | 19.24   | 19.16 | 19.34 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 16.65    | 16.72 | 16.79  | 18.00               | 15.18    | 15.29  | 15.09  | 16.50               | 21.38   | 21.46 | 21.50 | 23.00               |

| Band 2          |            |         |           |                      |                       |                       |                    |          |  |  |  |  |  |  |
|-----------------|------------|---------|-----------|----------------------|-----------------------|-----------------------|--------------------|----------|--|--|--|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power High Ch / Freq. | Power High Ch / Freq. | Turn-up time (sec) | MFR (dB) |  |  |  |  |  |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 17.69                | 18.63                 | 18.59                 | 19.5               | 0        |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 17.73                | 18.63                 | 18.47                 |                    |          |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 17.72                | 18.48                 | 18.40                 |                    |          |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 16.83                | 17.65                 | 17.53                 |                    |          |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 16.75                | 17.67                 | 17.53                 | 18.5               | 1        |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 16.75                | 17.54                 | 17.46                 |                    |          |  |  |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 16.83                | 17.65                 | 17.50                 |                    |          |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 15.93                | 17.65                 | 17.56                 |                    |          |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 16.76                | 17.53                 | 17.49                 | 18.5               | 1        |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 16.72                | 17.52                 | 17.49                 |                    |          |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 15.92                | 17.62                 | 17.50                 |                    |          |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 15.83                | 17.62                 | 17.50                 |                    |          |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 15.80                | 16.92                 | 16.82                 | 17.5               | 2        |  |  |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 15.80                | 16.92                 | 16.95                 |                    |          |  |  |  |  |  |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 17.63                | 18.51                 | 18.49                 | 19.5               | 0        |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 17.74                | 18.40                 | 18.36                 |                    |          |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 17.66                | 18.42                 | 18.37                 |                    |          |  |  |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 16.70                | 17.53                 | 17.50                 |                    |          |  |  |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 16.70                | 17.47                 | 17.46                 | 18.5               | 1        |  |  |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 16.68                | 17.51                 | 17.39                 |                    |          |  |  |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 16.68                | 17.54                 | 17.41                 |                    |          |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 16.82                | 17.50                 | 17.41                 |                    |          |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 16.64                | 17.39                 | 17.41                 | 18.5               | 1        |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 16.61                | 17.39                 | 17.36                 |                    |          |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 15.86                | 16.92                 | 16.83                 |                    |          |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 15.70                | 16.54                 | 16.46                 |                    |          |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 15.70                | 16.42                 | 16.37                 | 17.5               | 2        |  |  |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 15.70                | 16.42                 | 16.37                 |                    |          |  |  |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 15.75                | 16.58                 | 16.46                 |                    |          |  |  |  |  |  |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 17.63                | 18.49                 | 18.53                 | 19.5               | 0        |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 17.68                | 18.49                 | 18.37                 |                    |          |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 16.83                | 17.65                 | 17.56                 |                    |          |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 16.78                | 17.54                 | 17.41                 |                    |          |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 16.68                | 17.62                 | 17.45                 | 18.5               | 1        |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 16.68                | 17.62                 | 17.45                 |                    |          |  |  |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 16.72                | 17.58                 | 17.40                 |                    |          |  |  |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 16.84                | 17.61                 | 17.50                 |                    |          |  |  |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 16.71                | 17.48                 | 17.44                 | 18.5               | 1        |  |  |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 16.63                | 17.47                 | 17.42                 |                    |          |  |  |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 15.78                | 16.52                 | 16.55                 |                    |          |  |  |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 15.73                | 16.50                 | 16.52                 |                    |          |  |  |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 15.70                | 16.42                 | 16.34                 | 17.5               | 2        |  |  |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 15.75                | 16.58                 | 16.46                 |                    |          |  |  |  |  |  |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |  |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 17.67                | 18.53                 | 18.47                 | 19.5               | 0        |  |  |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 17.72                | 18.20                 | 18.35                 |                    |          |  |  |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 17.63                | 18.47                 | 18.36                 |                    |          |  |  |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 16.79                | 17.62                 | 17.39                 |                    |          |  |  |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 16.67                | 17.45                 | 17.44                 | 18.5               | 1        |  |  |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 16.68                | 17.49                 | 17.42                 |                    |          |  |  |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 16.72                | 17.46                 | 17.38                 |                    |          |  |  |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 16.82                | 17.61                 | 17.41                 |                    |          |  |  |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 16.66                | 17.49                 | 17.44                 | 18.5               | 1        |  |  |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 16.58                | 17.43                 | 17.43                 |                    |          |  |  |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 15.75                | 16.50                 | 16.55                 |                    |          |  |  |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 15.73                | 16.48                 | 16.40                 |                    |          |  |  |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 15.77                | 16.43                 | 16.37                 | 17.5               | 2        |  |  |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 15.67                | 16.45                 | 16.41                 |                    |          |  |  |  |  |  |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |  |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 17.65                | 18.50                 | 18.54                 | 19.5               | 0        |  |  |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 17.75                | 18.43                 | 18.41                 |                    |          |  |  |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 17.68                | 18.38                 | 18.31                 |                    |          |  |  |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 16.76                | 17.60                 | 17.42                 |                    |          |  |  |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 16.65                | 17.49                 | 17.47                 | 18.5               | 1        |  |  |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 16.70                | 17.44                 | 17.39                 |                    |          |  |  |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 16.69                | 17.48                 | 17.45                 |                    |          |  |  |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 16.81                | 17.50                 | 17.50                 |                    |          |  |  |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 16.67                | 17.48                 | 17.40                 | 18.5               | 1        |  |  |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 16.62                | 17.48                 | 17.37                 |                    |          |  |  |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 15.81                | 16.91                 | 16.55                 |                    |          |  |  |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 15.71                | 16.54                 | 16.45                 |                    |          |  |  |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 15.76                | 16.45                 | 16.36                 | 17.5               | 2        |  |  |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 15.66                | 16.58                 | 16.45                 |                    |          |  |  |  |  |  |  |
| Channel         |            |         |           |                      |                       |                       |                    |          |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                    |          |  |  |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 17.56                | 18.50                 | 18.55                 | 19.5               | 0        |  |  |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 17.68                | 18.45                 | 18.38                 |                    |          |  |  |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 17.60                | 18.20                 | 18.25                 |                    |          |  |  |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 17.80                | 18.50                 | 18.48                 |                    |          |  |  |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 17.82                | 18.43                 | 18.38                 | 18.5               | 1        |  |  |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 17.64                | 18.46                 | 18.36                 |                    |          |  |  |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 16.70                | 17.52                 | 17.41                 |                    |          |  |  |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 16.87                | 17.54                 | 17.52                 |                    |          |  |  |  |  |  |  |
| 1.4             | 16QAM      | 1       | 2         | 16.70                | 17.52                 | 17.44                 | 18.5               | 1        |  |  |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 16.63                | 17.39                 | 17.44                 |                    |          |  |  |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 16.82                | 17.57                 | 17.51                 |                    |          |  |  |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 16.75                | 17.57                 | 17.44                 |                    |          |  |  |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 16.76                | 17.47                 | 17.36                 | 17.5               | 2        |  |  |  |  |  |  |
| 1.4             | 16QAM      | 5       | 0         | 15.67                | 16.48                 | 16.44                 |                    |          |  |  |  |  |  |  |

| Band 4          |            |         |           |                            |                             |                             |                    |          |  |  |
|-----------------|------------|---------|-----------|----------------------------|-----------------------------|-----------------------------|--------------------|----------|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. (MHz) | Power High Ch / Freq. (MHz) | Power High Ch / Freq. (MHz) | Turn-up time (sec) | MFR (dB) |  |  |
| Channel         |            |         |           |                            |                             |                             |                    |          |  |  |
| Frequency (MHz) |            |         |           |                            |                             |                             |                    |          |  |  |
| 20              | QPSK       | 1       | 0         | 15.87                      | 15.70                       | 16.76                       | 17.5               | 0        |  |  |
| 20              | QPSK       | 1       | 49        | 15.82                      | 15.65                       | 16.63                       |                    |          |  |  |
| 20              | QPSK       | 1       | 99        | 15.91                      | 15.63                       | 16.70                       |                    |          |  |  |
| 20              | QPSK       | 50      | 0         | 14.93                      | 14.81                       | 15.75                       |                    |          |  |  |
| 20              | QPSK       | 50      | 24        | 14.93                      | 14.59                       | 15.69                       | 16.5               | 1        |  |  |
| 20              | QPSK       | 50      | 50        | 14.93                      | 14.68                       | 15.70                       |                    |          |  |  |
| 20              | QPSK       | 100     | 0         | 14.82                      | 14.80                       | 15.67                       |                    |          |  |  |
| 20              | 16QAM      | 1       | 49        | 15.18                      | 14.91                       | 15.68                       |                    |          |  |  |
| 20              | 16QAM      | 1       | 99        | 15.03                      | 14.79                       | 15.70                       | 16.5               | 1        |  |  |
| 20              | 16QAM      | 50      | 0         | 13.97                      | 13.76                       | 14.77                       |                    |          |  |  |
| 20              | 16QAM      | 50      | 24        | 13.97                      | 13.72                       | 14.76                       |                    |          |  |  |
| 20              | 16QAM      | 50      | 50        | 13.96                      | 13.94                       | 14.82                       |                    |          |  |  |
| 20              | 16QAM      | 100     | 0         | 13.98                      | 13.77                       | 14.82                       | 15.5               | 2        |  |  |
| Channel         |            |         |           |                            |                             |                             |                    |          |  |  |
| Frequency (MHz) |            |         |           |                            |                             |                             |                    |          |  |  |
| 15              | QPSK       | 1       | 0         | 17.175                     | 17.215                      | 17.475                      | Turn-up time (sec) | MFR (dB) |  |  |
| 15              | QPSK       | 1       | 0         | 15.83                      | 15.66                       | 16.72                       | 17.5               | 0        |  |  |
| 15              | QPSK       | 1       | 49        | 15.74                      | 15.53                       | 16.63                       |                    |          |  |  |
| 15              | QPSK       | 1       | 98        | 15.83                      | 15.60                       | 16.66                       |                    |          |  |  |
| 15              | QPSK       | 36      | 0         | 14.86                      | 14.70                       | 15.70                       |                    |          |  |  |
| 15              | QPSK       | 36      | 24        | 14.72                      | 14.54                       | 15.63                       | 16.5               | 1        |  |  |
| 15              | QPSK       | 36      | 48        | 14.85                      | 14.64                       | 15.65                       |                    |          |  |  |
| 15              | QPSK       | 72      | 0         | 14.70                      | 14.53                       | 15.54                       |                    |          |  |  |
| 15              | QPSK       | 72      | 36        | 14.80                      | 14.63                       | 15.66                       |                    |          |  |  |
| 15              | 16QAM      | 1       | 37        | 15.13                      | 14.82                       | 15.65                       | 16.5               | 1        |  |  |
| 15              | 16QAM      | 1       | 74        | 14.94                      | 14.73                       | 15.67                       |                    |          |  |  |
| 15              | 16QAM      | 36      | 0         | 13.86                      | 13.67                       | 14.71                       |                    |          |  |  |
| 15              | 16QAM      | 36      | 20        | 13.83                      | 13.60                       | 14.71                       |                    |          |  |  |
| 15              | 16QAM      | 36      | 20        | 13.86                      | 13.78                       | 14.79                       | 15.5               | 2        |  |  |
| 15              | 16QAM      | 72      | 0         | 13.95                      | 13.94                       | 14.82                       |                    |          |  |  |
| Channel         |            |         |           |                            |                             |                             |                    |          |  |  |
| Frequency (MHz) |            |         |           |                            |                             |                             |                    |          |  |  |
| 10              | QPSK       | 1       | 0         | 17.175                     | 17.215                      | 17.475                      | Turn-up time (sec) | MFR (dB) |  |  |
| 10              | QPSK       | 1       | 0         | 15.74                      | 15.56                       | 16.62                       | 17.5               | 0        |  |  |
| 10              | QPSK       | 1       | 25        | 15.77                      | 15.48                       | 16.50                       |                    |          |  |  |
| 10              | QPSK       | 1       | 49        | 15.80                      | 15.57                       | 16.57                       |                    |          |  |  |
| 10              | QPSK       | 1       | 74        | 15.88                      | 15.67                       | 16.68                       |                    |          |  |  |
| 10              | QPSK       | 25      | 12        | 14.77                      | 14.51                       | 15.57                       | 16.5               | 1        |  |  |
| 10              | QPSK       | 25      | 24        | 14.81                      | 14.54                       | 15.63                       |                    |          |  |  |
| 10              | QPSK       | 25      | 36        | 14.78                      | 14.52                       | 15.55                       |                    |          |  |  |
| 10              | QPSK       | 50      | 0         | 15.08                      | 14.83                       | 15.85                       |                    |          |  |  |
| 10              | 16QAM      | 1       | 25        | 15.06                      | 14.72                       | 15.66                       | 16.5               | 1        |  |  |
| 10              | 16QAM      | 1       | 49        | 14.97                      | 14.65                       | 15.61                       |                    |          |  |  |
| 10              | 16QAM      | 25      | 0         | 13.86                      | 13.70                       | 14.68                       |                    |          |  |  |
| 10              | 16QAM      | 25      | 12        | 13.94                      | 13.87                       | 14.63                       |                    |          |  |  |
| 10              | 16QAM      | 25      | 12        | 13.94                      | 13.87                       | 14.63                       | 15.5               | 2        |  |  |
| 10              | 16QAM      | 50      | 0         | 13.94                      | 13.94                       | 14.78                       |                    |          |  |  |
| Channel         |            |         |           |                            |                             |                             |                    |          |  |  |
| Frequency (MHz) |            |         |           |                            |                             |                             |                    |          |  |  |
| 5               | QPSK       | 1       | 0         | 15.75                      | 15.61                       | 16.93                       | Turn-up time (sec) | MFR (dB) |  |  |
| 5               | QPSK       | 1       | 12        | 15.73                      | 15.54                       | 16.85                       | 17.5               | 0        |  |  |
| 5               | QPSK       | 1       | 24        | 15.81                      | 15.67                       | 16.91                       |                    |          |  |  |
| 5               | QPSK       | 12      | 0         | 14.82                      | 14.75                       | 15.65                       |                    |          |  |  |
| 5               | QPSK       | 12      | 7         | 14.78                      | 14.63                       | 15.66                       |                    |          |  |  |
| 5               | QPSK       | 12      | 7         | 14.82                      | 14.65                       | 15.67                       | 16.5               | 1        |  |  |
| 5               | QPSK       | 25      | 0         | 14.68                      | 14.57                       | 15.55                       |                    |          |  |  |
| 5               | 16QAM      | 1       | 0         | 15.04                      | 14.86                       | 15.84                       |                    |          |  |  |
| 5               | 16QAM      | 1       | 24        | 14.94                      | 14.68                       | 15.68                       |                    |          |  |  |
| 5               | 16QAM      | 12      | 0         | 13.84                      | 13.67                       | 14.68                       | 16.5               | 1        |  |  |
| 5               | 16QAM      | 12      | 7         | 13.84                      | 13.63                       | 14.63                       |                    |          |  |  |
| 5               | 16QAM      | 25      | 0         | 13.86                      | 13.70                       | 14.73                       |                    |          |  |  |
| 5               | 16QAM      | 25      | 0         | 13.92                      | 13.68                       | 14.67                       |                    |          |  |  |
| 5               | 16QAM      | 25      | 0         | 13.92                      | 13.92                       | 14.78                       | Turn-up time (sec) | MFR (dB) |  |  |
| Channel         |            |         |           |                            |                             |                             |                    |          |  |  |
| Frequency (MHz) |            |         |           |                            |                             |                             |                    |          |  |  |
| 3               | QPSK       | 1       | 0         | 17.115                     | 17.235                      | 17.315                      | Turn-up time (sec) | MFR (dB) |  |  |
| 3               | QPSK       | 1       | 0         | 15.81                      | 15.62                       | 16.69                       | 17.5               | 0        |  |  |
| 3               | QPSK       | 1       | 7         | 15.73                      | 15.61                       | 16.71                       |                    |          |  |  |
| 3               | QPSK       | 1       | 14        | 15.83                      | 15.64                       | 16.75                       |                    |          |  |  |
| 3               | QPSK       | 1       | 0         | 14.85                      | 14.74                       | 15.73                       |                    |          |  |  |
| 3               | QPSK       | 1       | 7         | 14.70                      | 14.63                       | 15.63                       | 16.5               | 1        |  |  |
| 3               | QPSK       | 8       | 0         | 14.79                      | 14.65                       | 15.55                       |                    |          |  |  |
| 3               | QPSK       | 15      | 0         | 14.77                      | 14.54                       | 15.53                       |                    |          |  |  |
| 3               | QPSK       | 15      | 0         | 14.77                      | 14.76                       | 15.67                       |                    |          |  |  |
| 3               | 16QAM      | 1       | 8         | 15.04                      | 14.75                       | 15.91                       | 16.5               | 1        |  |  |
| 3               | 16QAM      | 1       | 14        | 14.99                      | 14.73                       | 15.74                       |                    |          |  |  |
| 3               | 16QAM      | 8       | 0         | 13.86                      | 13.68                       | 14.68                       |                    |          |  |  |
| 3               | 16QAM      | 8       | 7         | 13.86                      | 13.65                       | 14.68                       |                    |          |  |  |
| 3               | 16QAM      | 8       | 7         | 13.86                      | 13.65                       | 14.68                       | 15.5               | 2        |  |  |
| 3               | 16QAM      | 8       | 7         | 13.88                      | 13.81                       | 14.79                       |                    |          |  |  |
| 3               | 16QAM      | 15      | 0         | 13.94                      | 13.84                       | 14.78                       | Turn-up time (sec) | MFR (dB) |  |  |
| Channel         |            |         |           |                            |                             |                             |                    |          |  |  |
| Frequency (MHz) |            |         |           |                            |                             |                             |                    |          |  |  |
| 1.4             | QPSK       | 1       | 0         | 15.82                      | 15.66                       | 16.71                       | Turn-up time (sec) | MFR (dB) |  |  |
| 1.4             | QPSK       | 1       | 0         | 15.78                      | 15.60                       | 16.66                       | 17.5               | 0        |  |  |
| 1.4             | QPSK       | 1       | 8         | 15.80                      | 15.53                       | 16.59                       |                    |          |  |  |
| 1.4             | QPSK       | 3       | 0         | 14.83                      | 14.76                       | 15.70                       |                    |          |  |  |
| 1.4             | QPSK       | 3       | 3         | 14.74                      | 14.58                       | 15.68                       |                    |          |  |  |
| 1.4             | QPSK       | 3       | 3         | 15.87                      | 15.56                       | 16.57                       | 16.5               | 1        |  |  |
| 1.4             | QPSK       | 6       | 0         | 14.84                      | 14.54                       | 15.60                       |                    |          |  |  |
| 1.4             | QPSK       | 6       | 0         | 15.07                      | 14.87                       | 15.92                       |                    |          |  |  |
| 1.4             | QPSK       | 1       | 3         | 15.15                      | 14.78                       | 15.83                       |                    |          |  |  |
| 1.4             | 16QAM      | 1       | 0         | 14.86                      | 14.74                       | 15.74                       | 16.5               | 1        |  |  |
| 1.4             | 16QAM      | 1       | 0         | 14.72                      | 14.72                       | 15.74                       |                    |          |  |  |
| 1.4             | 16QAM      | 3       | 1         | 14.90                      | 14.57                       | 15.69                       |                    |          |  |  |
| 1.4             | 16QAM      | 3       | 1         | 14.79                      | 14.56                       | 15.69                       |                    |          |  |  |
| 1.4             | 16QAM      | 6       | 0         | 13.87                      | 13.72                       | 14.78                       | 15.5               | 2        |  |  |
| Channel         |            |         |           |                            |                             |                             |                    |          |  |  |

| Band 13         |            |         |           |                            |                               |                             |                           |             |  |
|-----------------|------------|---------|-----------|----------------------------|-------------------------------|-----------------------------|---------------------------|-------------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low Ch./<br>Freq. | Power<br>Middle Ch./<br>Freq. | Power<br>High Ch./<br>Freq. | Time-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 78.2                       |                               |                             | 24                        | 0           |  |
| Frequency (MHz) |            |         |           | 78.2                       |                               |                             |                           |             |  |
| 10              | QPSK       | 1       | 0         | 23.40                      |                               |                             |                           |             |  |
| 10              | QPSK       | 1       | 26        | 23.28                      |                               |                             |                           |             |  |
| 10              | QPSK       | 1       | 49        | 23.21                      |                               |                             |                           |             |  |
| 10              | QPSK       | 25      | 0         | 22.46                      |                               |                             | 23                        | 1           |  |
| 10              | QPSK       | 25      | 12        | 22.30                      |                               |                             |                           |             |  |
| 10              | QPSK       | 25      | 25        | 22.23                      |                               |                             |                           |             |  |
| 10              | QPSK       | 50      | 0         | 22.22                      |                               |                             |                           |             |  |
| 10              | 16QAM      | 1       | 0         | 22.57                      |                               |                             |                           |             |  |
| 10              | 16QAM      | 1       | 26        | 22.43                      |                               |                             | 23                        | 1           |  |
| 10              | 16QAM      | 1       | 49        | 22.43                      |                               |                             |                           |             |  |
| 10              | 16QAM      | 25      | 0         | 21.46                      |                               |                             |                           |             |  |
| 10              | 16QAM      | 25      | 12        | 21.46                      |                               |                             |                           |             |  |
| 10              | 16QAM      | 25      | 25        | 21.21                      |                               |                             |                           |             |  |
| 10              | 16QAM      | 50      | 0         | 21.36                      |                               |                             | 22                        | 2           |  |
| 10              | 16QAM      | 50      | 0         | 21.36                      |                               |                             |                           |             |  |
| Channel         |            |         |           | 23205                      | 23205                         | 23205                       | 24                        | 0           |  |
| Frequency (MHz) |            |         |           | 779.5                      | 782                           | 794.5                       |                           |             |  |
| 5               | QPSK       | 1       | 0         | 23.35                      | 23.28                         | 23.31                       |                           |             |  |
| 5               | QPSK       | 1       | 12        | 23.18                      | 23.19                         | 23.11                       |                           |             |  |
| 5               | QPSK       | 1       | 24        | 23.01                      | 23.02                         | 23.06                       |                           |             |  |
| 5               | QPSK       | 12      | 0         | 22.31                      | 22.35                         | 22.29                       | 23                        | 1           |  |
| 5               | QPSK       | 12      | 7         | 22.16                      | 22.18                         | 22.20                       |                           |             |  |
| 5               | QPSK       | 12      | 13        | 22.08                      | 22.02                         | 22.08                       |                           |             |  |
| 5               | QPSK       | 25      | 0         | 22.13                      | 22.26                         | 22.13                       |                           |             |  |
| 5               | 16QAM      | 1       | 0         | 22.53                      | 22.48                         | 22.47                       |                           |             |  |
| 5               | 16QAM      | 1       | 12        | 22.39                      | 22.23                         | 22.36                       | 23                        | 1           |  |
| 5               | 16QAM      | 1       | 24        | 22.33                      | 22.24                         | 22.26                       |                           |             |  |
| 5               | 16QAM      | 12      | 0         | 21.40                      | 21.31                         | 21.45                       |                           |             |  |
| 5               | 16QAM      | 12      | 7         | 21.36                      | 21.41                         | 21.36                       |                           |             |  |
| 5               | 16QAM      | 12      | 13        | 21.21                      | 21.17                         | 21.26                       |                           |             |  |
| 5               | 16QAM      | 25      | 0         | 21.20                      | 21.32                         | 21.32                       | 22                        | 2           |  |
| 5               | 16QAM      | 25      | 0         | 21.20                      | 21.32                         | 21.32                       |                           |             |  |

| Band 26         |            |         |           |                        |                           |                         |                     |          |  |
|-----------------|------------|---------|-----------|------------------------|---------------------------|-------------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./Fz (dBm) | Power Middle Ch./Fz (dBm) | Power High Ch./Fz (dBm) | Time-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 821.5                  |                           |                         | 24                  | 0        |  |
| Frequency (MHz) |            |         |           | 821.5                  |                           |                         |                     |          |  |
| 15              | QPSK       | 1       | 0         | 22.84                  | 22.84                     | 22.85                   |                     |          |  |
| 15              | QPSK       | 1       | 31        | 22.78                  | 22.87                     | 22.83                   |                     |          |  |
| 15              | QPSK       | 1       | 74        | 22.71                  | 22.91                     | 22.75                   |                     |          |  |
| 15              | QPSK       | 36      | 0         | 21.74                  | 21.91                     | 21.83                   |                     |          |  |
| 15              | QPSK       | 36      | 20        | 21.71                  | 21.88                     | 21.70                   |                     |          |  |
| 15              | QPSK       | 36      | 39        | 21.70                  | 21.80                     | 21.69                   |                     |          |  |
| 15              | QPSK       | 75      | 0         | 21.81                  | 21.88                     | 21.87                   |                     |          |  |
| 15              | 16QAM      | 1       | 0         | 21.96                  | 22.02                     | 21.94                   |                     |          |  |
| 15              | 16QAM      | 1       | 31        | 21.77                  | 21.90                     | 21.75                   |                     |          |  |
| 15              | 16QAM      | 1       | 74        | 21.63                  | 21.99                     | 21.84                   |                     |          |  |
| 15              | 16QAM      | 36      | 0         | 21.01                  | 21.06                     | 20.93                   |                     |          |  |
| 15              | 16QAM      | 36      | 20        | 20.82                  | 21.00                     | 20.90                   |                     |          |  |
| 15              | 16QAM      | 36      | 39        | 20.83                  | 20.92                     | 20.81                   |                     |          |  |
| 15              | 16QAM      | 75      | 0         | 20.79                  | 20.99                     | 20.94                   |                     |          |  |
| Channel         |            |         |           | 816.5                  | 815.5                     | 844                     | Time-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 816                    | 815                       | 844                     | 24                  | 0        |  |
| 10              | QPSK       | 1       | 0         | 22.73                  | 22.68                     | 22.85                   |                     |          |  |
| 10              | QPSK       | 1       | 26        | 22.72                  | 22.72                     | 22.81                   |                     |          |  |
| 10              | QPSK       | 1       | 49        | 22.66                  | 22.85                     | 22.62                   |                     |          |  |
| 10              | QPSK       | 25      | 0         | 21.60                  | 21.61                     | 21.65                   |                     |          |  |
| 10              | QPSK       | 25      | 12        | 21.57                  | 21.78                     | 21.64                   |                     |          |  |
| 10              | QPSK       | 25      | 25        | 21.65                  | 21.65                     | 21.66                   |                     |          |  |
| 10              | QPSK       | 50      | 0         | 21.67                  | 21.62                     | 21.52                   |                     |          |  |
| 10              | 16QAM      | 1       | 0         | 21.87                  | 21.87                     | 21.76                   |                     |          |  |
| 10              | 16QAM      | 1       | 25        | 21.65                  | 21.81                     | 21.67                   |                     |          |  |
| 10              | 16QAM      | 1       | 49        | 21.86                  | 21.91                     | 21.78                   |                     |          |  |
| 10              | 16QAM      | 25      | 0         | 20.88                  | 20.89                     | 20.88                   |                     |          |  |
| 10              | 16QAM      | 25      | 12        | 20.75                  | 20.84                     | 20.87                   |                     |          |  |
| 10              | 16QAM      | 25      | 25        | 20.72                  | 20.80                     | 20.73                   |                     |          |  |
| 10              | 16QAM      | 50      | 0         | 20.62                  | 20.93                     | 20.83                   |                     |          |  |
| Channel         |            |         |           | 811.5                  | 810.5                     | 820.5                   | Time-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 811.5                  | 811.5                     | 840.5                   | 24                  | 0        |  |
| 5               | QPSK       | 1       | 0         | 22.74                  | 22.81                     | 22.81                   |                     |          |  |
| 5               | QPSK       | 1       | 12        | 22.69                  | 22.81                     | 22.72                   |                     |          |  |
| 5               | QPSK       | 1       | 24        | 22.64                  | 22.77                     | 22.58                   |                     |          |  |
| 5               | QPSK       | 12      | 0         | 21.70                  | 21.88                     | 21.78                   |                     |          |  |
| 5               | QPSK       | 12      | 7         | 21.54                  | 21.74                     | 21.56                   |                     |          |  |
| 5               | QPSK       | 12      | 13        | 21.62                  | 21.67                     | 21.52                   |                     |          |  |
| 5               | QPSK       | 25      | 0         | 21.65                  | 21.77                     | 21.60                   |                     |          |  |
| 5               | 16QAM      | 1       | 0         | 21.88                  | 21.91                     | 21.91                   |                     |          |  |
| 5               | 16QAM      | 1       | 12        | 21.68                  | 21.78                     | 21.71                   |                     |          |  |
| 5               | 16QAM      | 1       | 24        | 21.88                  | 21.86                     | 21.84                   |                     |          |  |
| 5               | 16QAM      | 12      | 0         | 20.87                  | 20.97                     | 20.85                   |                     |          |  |
| 5               | 16QAM      | 12      | 7         | 20.86                  | 20.82                     | 20.85                   |                     |          |  |
| 5               | 16QAM      | 12      | 13        | 20.86                  | 20.87                     | 20.77                   |                     |          |  |
| 5               | 16QAM      | 25      | 0         | 20.73                  | 20.97                     | 20.81                   |                     |          |  |
| Channel         |            |         |           | 26705                  | 26695                     | 27005                   | Time-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 815.5                  | 815.5                     | 847.5                   | 24                  | 0        |  |
| 3               | QPSK       | 1       | 0         | 22.77                  | 22.81                     | 22.83                   |                     |          |  |
| 3               | QPSK       | 1       | 8         | 22.60                  | 22.66                     | 22.76                   |                     |          |  |
| 3               | QPSK       | 1       | 14        | 22.65                  | 22.79                     | 22.71                   |                     |          |  |
| 3               | QPSK       | 8       | 0         | 21.70                  | 21.73                     | 21.80                   |                     |          |  |
| 3               | QPSK       | 8       | 4         | 21.61                  | 21.76                     | 21.67                   |                     |          |  |
| 3               | QPSK       | 8       | 7         | 21.65                  | 21.70                     | 21.60                   |                     |          |  |
| 3               | QPSK       | 15      | 0         | 21.76                  | 21.80                     | 21.59                   |                     |          |  |
| 3               | 16QAM      | 1       | 0         | 21.85                  | 21.88                     | 21.84                   |                     |          |  |
| 3               | 16QAM      | 1       | 8         | 21.64                  | 21.74                     | 21.62                   |                     |          |  |
| 3               | 16QAM      | 1       | 14        | 21.76                  | 21.95                     | 21.90                   |                     |          |  |
| 3               | 16QAM      | 8       | 0         | 20.92                  | 20.97                     | 20.76                   |                     |          |  |
| 3               | 16QAM      | 8       | 4         | 20.68                  | 20.87                     | 20.83                   |                     |          |  |
| 3               | 16QAM      | 8       | 7         | 20.80                  | 20.76                     | 20.68                   |                     |          |  |
| 3               | 16QAM      | 15      | 0         | 20.77                  | 20.85                     | 20.57                   |                     |          |  |
| Channel         |            |         |           | 26697                  | 26695                     | 27003                   | Time-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 814.7                  | 814.7                     | 847.3                   | 24                  | 0        |  |
| 1.4             | QPSK       | 1       | 0         | 22.77                  | 22.77                     | 22.73                   |                     |          |  |
| 1.4             | QPSK       | 1       | 3         | 22.70                  | 22.68                     | 22.69                   |                     |          |  |
| 1.4             | QPSK       | 1       | 5         | 22.57                  | 22.79                     | 22.59                   |                     |          |  |
| 1.4             | QPSK       | 3       | 0         | 22.57                  | 22.75                     | 22.81                   |                     |          |  |
| 1.4             | QPSK       | 3       | 1         | 22.60                  | 22.81                     | 22.60                   |                     |          |  |
| 1.4             | QPSK       | 3       | 3         | 22.63                  | 22.82                     | 22.55                   |                     |          |  |
| 1.4             | QPSK       | 6       | 0         | 21.72                  | 21.82                     | 21.52                   |                     |          |  |
| 1.4             | 16QAM      | 1       | 0         | 21.89                  | 21.95                     | 21.87                   |                     |          |  |
| 1.4             | 16QAM      | 1       | 3         | 21.67                  | 21.84                     | 21.60                   |                     |          |  |
| 1.4             | 16QAM      | 1       | 5         | 21.83                  | 21.84                     | 21.85                   |                     |          |  |
| 1.4             | 16QAM      | 3       | 0         | 21.85                  | 21.89                     | 21.88                   |                     |          |  |
| 1.4             | 16QAM      | 3       | 1         | 21.79                  | 21.90                     | 21.77                   |                     |          |  |
| 1.4             | 16QAM      | 3       | 3         | 21.70                  | 21.77                     | 21.66                   |                     |          |  |
| 1.4             | 16QAM      | 6       | 0         | 20.67                  | 20.86                     | 20.86                   |                     |          |  |

| Band 66         |            |         |           |                                    |                        |                      |                                         |          |  |      |   |  |
|-----------------|------------|---------|-----------|------------------------------------|------------------------|----------------------|-----------------------------------------|----------|--|------|---|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./Freq.                | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm)                     | MPR (dB) |  |      |   |  |
| Channel         |            |         |           | 13027                              | 13222                  | 13497                | -16.5                                   |          |  |      |   |  |
| Frequency (MHz) |            |         |           | 1745                               | 1775                   | 1799                 |                                         |          |  |      |   |  |
| 20              | QPSK       | 1       | 0         | 16.63                              | 17.46                  | 16.69                |                                         |          |  | 17.5 | 1 |  |
| 20              | QPSK       | 1       | 40        | 15.74                              | 17.39                  | 15.64                |                                         |          |  |      |   |  |
| 20              | QPSK       | 1       | 99        | 16.69                              | 17.36                  | 16.67                |                                         |          |  |      |   |  |
| 20              | QPSK       | 50      | 0         | 15.98                              | 16.94                  | 15.96                |                                         |          |  |      |   |  |
| 20              | QPSK       | 50      | 24        | 15.83                              | 16.42                  | 15.73                | 17.5                                    | 1        |  |      |   |  |
| 20              | QPSK       | 160     | 0         | 16.81                              | 16.63                  | 16.77                |                                         |          |  |      |   |  |
| 20              | QPSK       | 160     | 40        | 16.77                              | 16.63                  | 16.69                | 17.5                                    | 1        |  |      |   |  |
| 20              | QPSK       | 1       | 49        | 15.95                              | 15.90                  | 15.74                |                                         |          |  |      |   |  |
| 20              | QPSK       | 1       | 99        | 16.96                              | 16.57                  | 16.56                | 17.5                                    | 1        |  |      |   |  |
| 20              | QPSK       | 1       | 140       | 15.67                              | 15.62                  | 15.49                |                                         |          |  |      |   |  |
| 20              | QPSK       | 50      | 24        | 14.96                              | 15.57                  | 14.90                | 16.5                                    | 2        |  |      |   |  |
| 20              | QPSK       | 50      | 50        | 15.46                              | 15.48                  | 15.27                |                                         |          |  |      |   |  |
| 20              | QPSK       | 50      | 75        | 15.52                              | 15.48                  | 15.27                | -16.5 <th colspan="2" rowspan="5"></th> |          |  |      |   |  |
| Channel         |            |         |           | 13204                              | 13222                  | 13260                |                                         |          |  |      |   |  |
| Frequency (MHz) |            |         |           | 1717.5                             | 1745                   | 1772.5               |                                         |          |  |      |   |  |
| 15              | QPSK       | 1       | 0         | 16.59                              | 17.36                  | 16.54                |                                         |          |  | 16.5 | 1 |  |
| 15              | QPSK       | 1       | 40        | 15.66                              | 17.35                  | 15.54                |                                         |          |  |      |   |  |
| 15              | QPSK       | 1       | 74        | 16.62                              | 17.30                  | 16.54                |                                         |          |  |      |   |  |
| 15              | QPSK       | 30      | 0         | 15.93                              | 16.57                  | 15.84                |                                         |          |  |      |   |  |
| 15              | QPSK       | 30      | 39        | 15.84                              | 16.57                  | 15.84                | 17.5                                    | 1        |  |      |   |  |
| 15              | QPSK       | 75      | 0         | 15.74                              | 16.30                  | 15.73                |                                         |          |  |      |   |  |
| 15              | QPSK       | 75      | 39        | 15.69                              | 16.33                  | 15.67                | 17.5                                    | 1        |  |      |   |  |
| 15              | QPSK       | 1       | 97        | 15.83                              | 16.45                  | 15.72                |                                         |          |  |      |   |  |
| 15              | QPSK       | 1       | 74        | 15.90                              | 16.43                  | 15.84                | 17.5                                    | 1        |  |      |   |  |
| 15              | QPSK       | 1       | 141       | 15.42                              | 15.42                  | 15.47                |                                         |          |  |      |   |  |
| 15              | QPSK       | 36      | 20        | 14.91                              | 15.52                  | 14.84                | 16.5                                    | 2        |  |      |   |  |
| 15              | QPSK       | 36      | 59        | 14.79                              | 15.33                  | 14.71                |                                         |          |  |      |   |  |
| 15              | QPSK       | 36      | 98        | 14.77                              | 15.31                  | 14.69                | -16.5 <th colspan="2" rowspan="5"></th> |          |  |      |   |  |
| Channel         |            |         |           | 13022                              | 13222                  | 13492                |                                         |          |  |      |   |  |
| Frequency (MHz) |            |         |           | 174.5 <th>1765<th>1792.5</th></th> | 1765 <th>1792.5</th>   | 1792.5               |                                         |          |  |      |   |  |
| 10              | QPSK       | 1       | 0         | 16.57                              | 17.43                  | 16.54                |                                         |          |  | 16.5 | 1 |  |
| 10              | QPSK       | 1       | 25        | 16.67                              | 17.38                  | 16.56                |                                         |          |  |      |   |  |
| 10              | QPSK       | 1       | 49        | 16.57                              | 17.31                  | 16.54                |                                         |          |  |      |   |  |
| 10              | QPSK       | 1       | 74        | 15.60                              | 17.35                  | 15.63                |                                         |          |  |      |   |  |
| 10              | QPSK       | 20      | 12        | 15.69                              | 16.31                  | 15.67                | 17.5                                    | 1        |  |      |   |  |
| 10              | QPSK       | 20      | 26        | 15.74                              | 16.48                  | 15.78                |                                         |          |  |      |   |  |
| 10              | QPSK       | 20      | 40        | 15.62                              | 16.47                  | 15.67                | 17.5                                    | 1        |  |      |   |  |
| 10              | QPSK       | 1       | 60        | 16.00                              | 16.58                  | 16.07                |                                         |          |  |      |   |  |
| 10              | QPSK       | 1       | 25        | 15.76                              | 16.30                  | 15.64                | 17.5                                    | 1        |  |      |   |  |
| 10              | QPSK       | 1       | 49        | 15.74                              | 16.43                  | 15.68                |                                         |          |  |      |   |  |
| 10              | QPSK       | 20      | 12        | 15.62                              | 16.44                  | 15.81                | 16.5                                    | 2        |  |      |   |  |
| 10              | QPSK       | 20      | 26        | 14.91                              | 16.45                  | 14.83                |                                         |          |  |      |   |  |
| 10              | QPSK       | 50      | 0         | 14.78                              | 15.46                  | 14.77                | -16.5 <th colspan="2" rowspan="5"></th> |          |  |      |   |  |
| Channel         |            |         |           | 13022                              | 13222                  | 13492                |                                         |          |  |      |   |  |
| Frequency (MHz) |            |         |           | 174.5 <th>1765<th>1792.5</th></th> | 1765 <th>1792.5</th>   | 1792.5               |                                         |          |  |      |   |  |
| 5               | QPSK       | 1       | 0         | 16.58                              | 17.41                  | 16.59                |                                         |          |  | 16.5 | 1 |  |
| 5               | QPSK       | 1       | 12        | 16.68                              | 17.28                  | 16.61                |                                         |          |  |      |   |  |
| 5               | QPSK       | 1       | 25        | 16.58                              | 17.25                  | 16.61                |                                         |          |  |      |   |  |
| 5               | QPSK       | 12      | 0         | 15.86                              | 16.53                  | 15.87                |                                         |          |  |      |   |  |
| 5               | QPSK       | 12      | 7         | 15.78                              | 16.36                  | 15.68                | 17.5                                    | 1        |  |      |   |  |
| 5               | QPSK       | 12      | 14        | 15.78                              | 16.36                  | 15.68                |                                         |          |  |      |   |  |
| 5               | QPSK       | 20      | 0         | 15.73                              | 16.34                  | 15.66                | 17.5                                    | 1        |  |      |   |  |
| 5               | QPSK       | 1       | 0         | 15.96                              | 16.52                  | 15.89                |                                         |          |  |      |   |  |
| 5               | QPSK       | 1       | 24        | 15.85                              | 16.57                  | 15.84                | 17.5                                    | 1        |  |      |   |  |
| 5               | QPSK       | 1       | 24        | 15.85                              | 16.52                  | 15.83                |                                         |          |  |      |   |  |
| 5               | QPSK       | 12      | 6         | 14.94                              | 15.48                  | 14.88                | 16.5                                    | 2        |  |      |   |  |
| 5               | QPSK       | 12      | 6         | 14.92                              | 15.43                  | 14.83                |                                         |          |  |      |   |  |
| 5               | QPSK       | 12      | 13        | 14.78                              | 15.43                  | 14.68                | 16.5                                    | 2        |  |      |   |  |
| 5               | QPSK       | 20      | 6         | 14.84                              | 15.39                  | 14.78                |                                         |          |  |      |   |  |
| Channel         |            |         |           | 13175                              | 13222                  | 13497                |                                         |          |  |      |   |  |
| Frequency (MHz) |            |         |           | 1711.5                             | 1745                   | 1779.5               |                                         |          |  |      |   |  |
| 3               | QPSK       | 1       | 0         | 16.54                              | 17.43                  | 16.55                | 16.5                                    | 1        |  |      |   |  |
| 3               | QPSK       | 1       | 1         | 16.71                              | 17.31                  | 16.67                |                                         |          |  |      |   |  |
| 3               | QPSK       | 1       | 14        | 15.57                              | 17.22                  | 16.63                |                                         |          |  |      |   |  |
| 3               | QPSK       | 8       | 0         | 15.96                              | 16.55                  | 15.89                |                                         |          |  |      |   |  |
| 3               | QPSK       | 8       | 8         | 15.87                              | 16.55                  | 15.89                | 17.5                                    | 1        |  |      |   |  |
| 3               | QPSK       | 8       | 8         | 15.81                              | 16.49                  | 15.76                |                                         |          |  |      |   |  |
| 3               | QPSK       | 16      | 0         | 16.71                              | 16.32                  | 16.66                | 17.5                                    | 1        |  |      |   |  |
| 3               | QPSK       | 16      | 8         | 16.53                              | 16.32                  | 16.66                |                                         |          |  |      |   |  |
| 3               | QPSK       | 1       | 0         | 15.79                              | 16.46                  | 15.70                | 17.5                                    | 1        |  |      |   |  |
| 3               | QPSK       | 1       | 14        | 16.01                              | 16.52                  | 15.91                |                                         |          |  |      |   |  |
| 3               | QPSK       | 1       | 14        | 16.00                              | 16.58                  | 15.94                | 17.5                                    | 1        |  |      |   |  |
| 3               | QPSK       | 1       | 14        | 15.84                              | 16.48                  | 15.81                |                                         |          |  |      |   |  |
| 3               | QPSK       | 8       | 4         | 14.85                              | 15.40                  | 14.80                | 16.5                                    | 2        |  |      |   |  |
| 3               | QPSK       | 8       | 7         | 14.74                              | 15.37                  | 14.67                |                                         |          |  |      |   |  |
| 3               | QPSK       | 8       | 7         | 14.74                              | 15.39                  | 14.67                | -16.5 <th colspan="2" rowspan="5"></th> |          |  |      |   |  |
| Channel         |            |         |           | 131978                             | 13222                  | 13497                |                                         |          |  |      |   |  |
| Frequency (MHz) |            |         |           | 1716.5                             | 1745                   | 1779.5               |                                         |          |  |      |   |  |
| 1.4             | QPSK       | 1       | 0         | 16.58                              | 17.41                  | 16.59                |                                         |          |  | 16.5 | 1 |  |
| 1.4             | QPSK       | 1       | 1         | 16.63                              | 17.24                  | 16.67                |                                         |          |  |      |   |  |
| 1.4             | QPSK       | 1       | 6         | 16.62                              | 17.31                  | 16.60                |                                         |          |  |      |   |  |
| 1.4             | QPSK       | 3       | 0         | 16.52                              | 17.40                  | 16.60                |                                         |          |  |      |   |  |
| 1.4             | QPSK       | 3       | 3         | 16.51                              | 17.40                  | 16.61                | 17.5                                    | 1        |  |      |   |  |
| 1.4             | QPSK       | 3       | 3         | 16.41                              | 17.42                  | 16.61                |                                         |          |  |      |   |  |
| 1.4             | QPSK       | 8       | 0         | 15.73                              | 16.33                  | 15.71                | 17.5                                    | 1        |  |      |   |  |
| 1.4             | QPSK       | 8       | 0         | 16.00                              | 16.58                  | 15.96                |                                         |          |  |      |   |  |
| 1.4             | QPSK       | 1       | 10        | 16.80                              | 16.39                  | 16.73                | 17.5                                    | 1        |  |      |   |  |
| 1.4             | QPSK       | 1       | 10        | 16.87                              | 16.33                  | 16.59                |                                         |          |  |      |   |  |
| 1.4             | QPSK       | 1       | 10        | 16.84                              | 16.48                  | 16.51                | 17.5                                    | 1        |  |      |   |  |
| 1.4             | QPSK       | 3       | 0         | 16.88                              | 16.44                  | 16.61                |                                         |          |  |      |   |  |
| 1.4             | QPSK       | 3       | 0         | 16.42                              | 16.37                  | 16.57                | 16.5                                    | 2        |  |      |   |  |
| 1.4             | QPSK       | 8       | 0         | 14.77                              | 15.46                  | 14.79                |                                         |          |  |      |   |  |

| Band 38         |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20              | QPSK       | 1       | 0         | 16.61                 | 16.73                    | 16.67                  |                     |          |  |
| 20              | QPSK       | 1       | 49        | 16.57                 | 16.70                    | 16.65                  | 17.5                | 0        |  |
| 20              | QPSK       | 1       | 99        | 16.52                 | 16.54                    | 16.56                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 15.82                 | 15.89                    | 15.76                  |                     |          |  |
| 20              | QPSK       | 50      | 24        | 15.88                 | 15.81                    | 15.83                  | 16.5                | 1        |  |
| 20              | QPSK       | 50      | 50        | 15.80                 | 15.79                    | 15.71                  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 15.63                 | 15.74                    | 15.67                  |                     |          |  |
| 20              | 16QAM      | 1       | 0         | 15.60                 | 15.70                    | 15.60                  | 16.5                | 1        |  |
| 20              | 16QAM      | 1       | 49        | 15.50                 | 15.73                    | 15.65                  |                     |          |  |
| 20              | 16QAM      | 1       | 99        | 15.48                 | 15.57                    | 15.51                  |                     |          |  |
| 20              | 16QAM      | 50      | 0         | 14.68                 | 14.70                    | 14.68                  | 15.5                | 2        |  |
| 20              | 16QAM      | 50      | 24        | 14.53                 | 14.68                    | 14.65                  |                     |          |  |
| 20              | 16QAM      | 50      | 50        | 14.46                 | 14.59                    | 14.51                  |                     |          |  |
| 20              | 16QAM      | 100     | 0         | 14.43                 | 14.56                    | 14.51                  |                     |          |  |
| Channel         |            |         |           | 37825                 | 38000                    | 38175                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |  |
| 15              | QPSK       | 1       | 0         | 16.54                 | 16.72                    | 16.52                  |                     | 17.5     |  |
| 15              | QPSK       | 1       | 37        | 16.49                 | 16.64                    | 16.60                  | 16.5                | 1        |  |
| 15              | QPSK       | 1       | 74        | 16.40                 | 16.44                    | 16.42                  |                     |          |  |
| 15              | QPSK       | 36      | 0         | 15.78                 | 15.77                    | 15.68                  |                     |          |  |
| 15              | QPSK       | 36      | 20        | 15.73                 | 15.70                    | 15.73                  | 16.5                | 1        |  |
| 15              | QPSK       | 36      | 39        | 15.70                 | 15.73                    | 15.67                  |                     |          |  |
| 15              | QPSK       | 75      | 0         | 15.50                 | 15.63                    | 15.55                  |                     |          |  |
| 15              | 16QAM      | 1       | 0         | 15.50                 | 15.56                    | 15.50                  | 16.5                | 1        |  |
| 15              | 16QAM      | 1       | 37        | 15.37                 | 15.59                    | 15.57                  |                     |          |  |
| 15              | 16QAM      | 1       | 74        | 15.36                 | 15.45                    | 15.45                  |                     |          |  |
| 15              | 16QAM      | 36      | 0         | 14.58                 | 14.56                    | 14.57                  | 15.5                | 2        |  |
| 15              | 16QAM      | 36      | 20        | 14.42                 | 14.60                    | 14.53                  |                     |          |  |
| 15              | 16QAM      | 36      | 39        | 14.37                 | 14.53                    | 14.44                  |                     |          |  |
| 15              | 16QAM      | 75      | 0         | 14.31                 | 14.51                    | 14.47                  |                     |          |  |
| Channel         |            |         |           | 37800                 | 38000                    | 38200                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2575                  | 2595                     | 2615                   |                     |          |  |
| 10              | QPSK       | 1       | 0         | 16.53                 | 16.64                    | 16.58                  | 17.5                | 0        |  |
| 10              | QPSK       | 1       | 25        | 16.54                 | 16.66                    | 16.56                  |                     |          |  |
| 10              | QPSK       | 1       | 49        | 16.49                 | 16.41                    | 16.45                  |                     |          |  |
| 10              | QPSK       | 25      | 0         | 15.68                 | 15.82                    | 15.71                  | 16.5                | 1        |  |
| 10              | QPSK       | 25      | 12        | 15.85                 | 15.72                    | 15.78                  |                     |          |  |
| 10              | QPSK       | 25      | 25        | 15.75                 | 15.67                    | 15.57                  |                     |          |  |
| 10              | QPSK       | 50      | 0         | 15.57                 | 15.61                    | 15.55                  | 16.5                | 1        |  |
| 10              | 16QAM      | 1       | 0         | 15.53                 | 15.61                    | 15.45                  |                     |          |  |
| 10              | 16QAM      | 1       | 25        | 15.37                 | 15.64                    | 15.58                  |                     |          |  |
| 10              | 16QAM      | 1       | 49        | 15.36                 | 15.53                    | 15.47                  | 15.5                | 2        |  |
| 10              | 16QAM      | 25      | 0         | 14.56                 | 14.59                    | 14.63                  |                     |          |  |
| 10              | 16QAM      | 25      | 12        | 14.46                 | 14.58                    | 14.54                  |                     |          |  |
| 10              | 16QAM      | 25      | 25        | 14.33                 | 14.46                    | 14.39                  |                     |          |  |
| 10              | 16QAM      | 50      | 0         | 14.34                 | 14.48                    | 14.45                  |                     |          |  |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |          |  |
| 5               | QPSK       | 1       | 0         | 16.55                 | 16.70                    | 16.62                  | 17.5                | 0        |  |
| 5               | QPSK       | 1       | 12        | 16.48                 | 16.61                    | 16.54                  |                     |          |  |
| 5               | QPSK       | 1       | 24        | 16.46                 | 16.44                    | 16.41                  |                     |          |  |
| 5               | QPSK       | 12      | 0         | 15.67                 | 15.80                    | 15.65                  | 16.5                | 1        |  |
| 5               | QPSK       | 12      | 7         | 15.80                 | 15.69                    | 15.74                  |                     |          |  |
| 5               | QPSK       | 12      | 13        | 15.70                 | 15.73                    | 15.65                  |                     |          |  |
| 5               | QPSK       | 25      | 0         | 15.60                 | 15.66                    | 15.58                  | 16.5                | 1        |  |
| 5               | 16QAM      | 1       | 0         | 15.49                 | 15.62                    | 15.57                  |                     |          |  |
| 5               | 16QAM      | 1       | 12        | 15.45                 | 15.67                    | 15.51                  |                     |          |  |
| 5               | 16QAM      | 1       | 24        | 15.41                 | 15.49                    | 15.39                  | 15.5                | 2        |  |
| 5               | 16QAM      | 12      | 0         | 14.61                 | 14.59                    | 14.55                  |                     |          |  |
| 5               | 16QAM      | 12      | 7         | 14.45                 | 14.58                    | 14.56                  |                     |          |  |
| 5               | 16QAM      | 12      | 13        | 14.38                 | 14.48                    | 14.41                  |                     |          |  |
| 5               | 16QAM      | 25      | 0         | 14.31                 | 14.45                    | 14.37                  |                     |          |  |

## WLAN/Bluetooth Power

| 2.4GHz WLAN |                   |         |                 | Ant 2<br>Full Power<br>For Head SAR<br>For Hotspot SAR<br>For Body-worn SAR<br>For Extremity SAR |               |              |
|-------------|-------------------|---------|-----------------|--------------------------------------------------------------------------------------------------|---------------|--------------|
|             | Mode              | Channel | Frequency (MHz) | Average power (dBm)                                                                              | Tune-Up Limit | Duty Cycle % |
| 2.4GHz WLAN | 802.11b 1Mbps     | 1       | 2412            | 19.01                                                                                            | 20.50         | 97.97        |
|             |                   | 6       | 2437            | 19.11                                                                                            | 20.50         |              |
|             |                   | 11      | 2462            | 18.98                                                                                            | 20.50         |              |
|             | 802.11g 6Mbps     | 1       | 2412            | 19.36                                                                                            | 20.50         | 97.46        |
|             |                   | 6       | 2437            | 18.83                                                                                            | 20.50         |              |
|             |                   | 11      | 2462            | 18.72                                                                                            | 20.50         |              |
|             | 802.11n-HT20 MCSO | 1       | 2412            | 19.06                                                                                            | 20.50         | 88.18        |
|             |                   | 6       | 2437            | 19.37                                                                                            | 20.50         |              |
|             |                   | 11      | 2462            | 19.05                                                                                            | 20.50         |              |

| 5.2GHz WLAN |                     |         |                 | Ant 2<br>Full Power<br>For Head SAR |               | Ant 2<br>For Body-worn SAR<br>For Hotspot SAR<br>For Extremity SAR |               |              |
|-------------|---------------------|---------|-----------------|-------------------------------------|---------------|--------------------------------------------------------------------|---------------|--------------|
|             | Mode                | Channel | Frequency (MHz) | Average power (dBm)                 | Tune-Up Limit | Average power (dBm)                                                | Tune-Up Limit | Duty Cycle % |
| 5.2GHz WLAN | 802.11a 6Mbps       | 36      | 5180            | 18.49                               | 19.50         | 13.42                                                              | 14.50         | 88.89        |
|             |                     | 40      | 5200            | 18.40                               | 19.50         | 13.16                                                              | 14.50         |              |
|             |                     | 44      | 5220            | 17.92                               | 19.50         | 13.02                                                              | 14.50         |              |
|             |                     | 48      | 5240            | 18.12                               | 19.50         | 13.11                                                              | 14.50         |              |
|             | 802.11n-HT20 MCSO   | 36      | 5180            | 18.46                               | 19.50         | Not Required                                                       | 14.50         | 88.61        |
|             |                     | 40      | 5200            | 18.41                               | 19.50         |                                                                    | 14.50         |              |
|             |                     | 44      | 5220            | 17.92                               | 19.50         |                                                                    | 14.50         |              |
|             |                     | 48      | 5240            | 18.06                               | 19.50         |                                                                    | 14.50         |              |
|             | 802.11ac-VHT20 MCSO | 36      | 5180            | 17.56                               | 19.00         |                                                                    | 14.50         | 89.16        |
|             |                     | 40      | 5200            | 17.42                               | 19.00         |                                                                    | 14.50         |              |
|             |                     | 44      | 5220            | 17.07                               | 19.00         |                                                                    | 14.50         |              |
|             |                     | 48      | 5240            | 17.29                               | 19.00         |                                                                    | 14.50         |              |

| 5.3GHz WLAN |                     |         |                 | Ant 2<br>Full Power<br>For Head SAR |               | Ant 2<br>For Body-worn SAR<br>For Extremity SAR |               |              |
|-------------|---------------------|---------|-----------------|-------------------------------------|---------------|-------------------------------------------------|---------------|--------------|
|             | Mode                | Channel | Frequency (MHz) | Average power (dBm)                 | Tune-Up Limit | Average power (dBm)                             | Tune-Up Limit | Duty Cycle % |
| 5.3GHz WLAN | 802.11a 6Mbps       | 52      | 5260            | 17.90                               | 19.50         | 12.88                                           | 14.50         | 88.89        |
|             |                     | 56      | 5280            | 18.15                               | 19.50         | 13.05                                           | 14.50         |              |
|             |                     | 60      | 5300            | 18.04                               | 19.50         | 12.91                                           | 14.50         |              |
|             |                     | 64      | 5320            | 17.73                               | 19.50         | 12.75                                           | 14.50         |              |
|             | 802.11n-HT20 MCSO   | 52      | 5260            | 17.90                               | 19.50         | Not Required                                    | 14.50         | 88.61        |
|             |                     | 56      | 5280            | 18.20                               | 19.50         |                                                 | 14.50         |              |
|             |                     | 60      | 5300            | 18.04                               | 19.50         |                                                 | 14.50         |              |
|             |                     | 64      | 5320            | 17.66                               | 19.50         |                                                 | 14.50         |              |
|             | 802.11ac-VHT20 MCSO | 52      | 5260            | 17.04                               | 18.50         |                                                 | 14.50         | 89.16        |
|             |                     | 56      | 5280            | 17.32                               | 19.00         |                                                 | 14.50         |              |
|             |                     | 60      | 5300            | 17.23                               | 19.00         |                                                 | 14.50         |              |
|             |                     | 64      | 5320            | 16.78                               | 18.50         |                                                 | 14.50         |              |

| 5.5GHz WLAN |                     |         |                 | Ant 2<br>Full Power<br>For Head SAR |               | Ant 2<br>For Body-worn SAR<br>For Extremity SAR |               |              |
|-------------|---------------------|---------|-----------------|-------------------------------------|---------------|-------------------------------------------------|---------------|--------------|
|             | Mode                | Channel | Frequency (MHz) | Average power (dBm)                 | Tune-Up Limit | Average power (dBm)                             | Tune-Up Limit | Duty Cycle % |
| 5.5GHz WLAN | 802.11a 6Mbps       | 100     | 5500            | 18.24                               | 19.50         | 15.12                                           | 16.50         | 88.89        |
|             |                     | 116     | 5580            | 18.09                               | 19.50         | 14.95                                           | 16.50         |              |
|             |                     | 124     | 5620            | 18.04                               | 19.50         | 14.86                                           | 16.50         |              |
|             |                     | 132     | 5660            | 17.73                               | 19.50         | 15.41                                           | 16.50         |              |
|             |                     | 140     | 5700            | 18.07                               | 19.50         | 15.68                                           | 16.50         |              |
|             | 802.11n-HT20 MCSO   | 100     | 5500            | 18.15                               | 19.50         | Not Required                                    | 16.50         | 88.61        |
|             |                     | 116     | 5580            | 17.97                               | 19.50         |                                                 | 16.50         |              |
|             |                     | 124     | 5620            | 17.85                               | 19.50         |                                                 | 16.50         |              |
|             |                     | 132     | 5660            | 18.00                               | 19.50         |                                                 | 16.50         |              |
|             | 802.11ac-VHT20 MCSO | 140     | 5700            | 17.94                               | 19.50         |                                                 | 16.50         | 89.16        |
|             |                     | 100     | 5500            | 17.21                               | 19.00         |                                                 | 16.50         |              |
|             |                     | 116     | 5580            | 16.73                               | 18.50         |                                                 | 16.50         |              |
|             |                     | 124     | 5620            | 17.07                               | 18.50         |                                                 | 16.50         |              |
|             |                     | 132     | 5660            | 16.58                               | 18.50         |                                                 | 16.50         |              |
|             |                     | 140     | 5700            | 16.71                               | 18.50         |                                                 | 16.50         |              |

| 5.8GHz WLAN |                     |         |                 | Ant 2<br>Full Power<br>For Head SAR<br>For Hotspot SAR<br>For Body-worn SAR<br>For Extremity SAR |               |              |
|-------------|---------------------|---------|-----------------|--------------------------------------------------------------------------------------------------|---------------|--------------|
|             | Mode                | Channel | Frequency (MHz) | Average power (dBm)                                                                              | Tune-Up Limit | Duty Cycle % |
| 5.8GHz WLAN | 802.11a 6Mbps       | 149     | 5745            | 17.79                                                                                            | 19.50         | 88.89        |
|             |                     | 157     | 5785            | 18.02                                                                                            | 19.50         |              |
|             |                     | 165     | 5825            | 17.60                                                                                            | 19.50         |              |
|             | 802.11n-HT20 MCSO   | 149     | 5745            | 17.70                                                                                            | 19.50         | 88.61        |
|             |                     | 157     | 5785            | 17.92                                                                                            | 19.50         |              |
|             |                     | 165     | 5825            | 17.56                                                                                            | 19.50         |              |
|             | 802.11ac-VHT20 MCSO | 149     | 5745            | 17.56                                                                                            | 19.50         | 89.16        |
|             |                     | 157     | 5785            | 16.61                                                                                            | 18.50         |              |
|             |                     | 165     | 5825            | 17.28                                                                                            | 19.00         |              |

#### BT BR/EDR

| Mode     | Channel | Frequency (MHz) | Average power (dBm) |       |       | Tune-up Limit |
|----------|---------|-----------------|---------------------|-------|-------|---------------|
|          |         |                 | 1Mbps               | 2Mbps | 3Mbps |               |
| BR / EDR | CH 00   | 2402            | 9.56                | 7.23  | 7.44  | 11.50         |
|          | CH 39   | 2441            | 9.77                | 7.84  | 7.81  | 11.50         |
|          | CH 76   | 2480            | 10.81               | 8.93  | 9.03  | 12.50         |

#### BLE\_1M

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |
|---------------|---------|-----------------|---------------------|
| LE            | CH 00   | 2402            | 0.97                |
|               | CH 19   | 2440            | 0.61                |
|               | CH 39   | 2480            | 1.04                |
| Tune-up Limit |         |                 | 2.00                |

#### BLE\_2M

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |
|---------------|---------|-----------------|---------------------|
| LE            | CH 00   | 2402            | 0.88                |
|               | CH 19   | 2440            | 0.75                |
|               | CH 39   | 2480            | 0.92                |
| Tune-up Limit |         |                 | 2.00                |