

**<GSM Conducted Power>**

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS (4Tx slots) for GSM850 and GPRS (3Tx slots) for GSM1900 are considered as the primary mode
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode, SAR measurement is not required for the secondary mode

Ant 1

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
| TX Channel      | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                           | 824.2                     | 836.4 | 848.8 |                           |
| GSM 1 Tx slot   | 33.13                     | 32.90 | 33.16 | 33.50                     | 24.13                     | 23.90 | 24.16 | 24.50                     |
| GPRS 1 Tx slot  | 33.05                     | 32.87 | 33.15 | 33.50                     | 24.05                     | 23.87 | 24.15 | 24.50                     |
| GPRS 2 Tx slots | 30.84                     | 30.16 | 30.38 | 31.50                     | 24.84                     | 24.16 | 24.38 | 25.50                     |
| GPRS 3 Tx slots | 29.06                     | 28.25 | 28.44 | 30.00                     | 24.80                     | 23.99 | 24.18 | 25.74                     |
| GPRS 4 Tx slots | 28.41                     | 27.53 | 27.50 | 29.50                     | 25.41                     | 24.53 | 24.50 | 26.50                     |
| EDGE 1 Tx slot  | 26.55                     | 26.50 | 26.50 | 28.50                     | 17.55                     | 17.50 | 17.50 | 19.50                     |
| EDGE 2 Tx slots | 24.78                     | 24.43 | 24.60 | 26.00                     | 18.78                     | 18.43 | 18.60 | 20.00                     |
| EDGE 3 Tx slots | 23.13                     | 22.78 | 22.99 | 24.50                     | 18.87                     | 18.52 | 18.73 | 20.24                     |
| EDGE 4 Tx slots | 22.43                     | 22.25 | 22.29 | 24.00                     | 19.43                     | 19.25 | 19.29 | 21.00                     |

Ant 3

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 29.70                     | 29.43 | 29.93  | 30.50                     | 20.70                     | 20.43 | 20.93  | 21.50                     |
| GPRS 1 Tx slot  | 29.76                     | 29.50 | 29.98  | 30.50                     | 20.76                     | 20.50 | 20.98  | 21.50                     |
| GPRS 2 Tx slots | 26.84                     | 26.97 | 27.00  | 28.00                     | 20.84                     | 20.97 | 21.00  | 22.00                     |
| GPRS 3 Tx slots | 25.57                     | 25.66 | 25.74  | 27.00                     | 21.31                     | 21.40 | 21.48  | 22.74                     |
| GPRS 4 Tx slots | 24.13                     | 24.20 | 24.25  | 25.50                     | 21.13                     | 21.20 | 21.25  | 22.50                     |
| EDGE 1 Tx slot  | 25.60                     | 25.56 | 25.61  | 27.50                     | 16.60                     | 16.56 | 16.61  | 18.50                     |
| EDGE 2 Tx slots | 23.25                     | 23.22 | 23.14  | 25.00                     | 17.25                     | 17.22 | 17.14  | 19.00                     |
| EDGE 3 Tx slots | 22.24                     | 22.14 | 22.13  | 24.00                     | 17.98                     | 17.88 | 17.87  | 19.74                     |
| EDGE 4 Tx slots | 21.10                     | 21.00 | 21.02  | 23.00                     | 18.10                     | 18.00 | 18.02  | 20.00                     |



Ant 1

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
| TX Channel      | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                           | 824.2                     | 836.4 | 848.8 |                           |
| GSM 1 Tx slot   | 30.50                     | 30.31 | 30.45 | 31.00                     | 21.50                     | 21.31 | 21.45 | 22.00                     |
| GPRS 1 Tx slot  | 30.52                     | 30.34 | 30.49 | 31.00                     | 21.52                     | 21.34 | 21.49 | 22.00                     |
| GPRS 2 Tx slots | 28.98                     | 28.48 | 28.46 | 29.00                     | 22.98                     | 22.48 | 22.46 | 23.00                     |
| GPRS 3 Tx slots | 27.33                     | 26.63 | 26.63 | 27.50                     | 23.07                     | 22.37 | 22.37 | 23.24                     |
| GPRS 4 Tx slots | 26.60                     | 25.94 | 25.98 | 27.00                     | 23.60                     | 22.94 | 22.98 | 24.00                     |
| EDGE 1 Tx slot  | 26.30                     | 26.24 | 26.14 | 26.50                     | 17.30                     | 17.24 | 17.14 | 17.50                     |
| EDGE 2 Tx slots | 24.64                     | 24.56 | 24.62 | 25.00                     | 18.64                     | 18.56 | 18.62 | 19.00                     |
| EDGE 3 Tx slots | 23.18                     | 22.95 | 23.11 | 23.50                     | 18.92                     | 18.69 | 18.85 | 19.24                     |
| EDGE 4 Tx slots | 22.50                     | 22.23 | 22.34 | 23.00                     | 19.50                     | 19.23 | 19.34 | 20.00                     |

Ant 3

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 29.32                     | 29.41 | 29.45  | 29.50                     | 20.32                     | 20.41 | 20.45  | 20.50                     |
| GPRS 1 Tx slot  | 29.35                     | 29.45 | 29.46  | 29.50                     | 20.35                     | 20.45 | 20.46  | 20.50                     |
| GPRS 2 Tx slots | 26.95                     | 26.99 | 26.96  | 27.00                     | 20.95                     | 20.99 | 20.96  | 21.00                     |
| GPRS 3 Tx slots | 25.61                     | 25.65 | 25.67  | 26.00                     | 21.35                     | 21.39 | 21.41  | 21.74                     |
| GPRS 4 Tx slots | 24.17                     | 23.68 | 24.21  | 24.50                     | 21.17                     | 20.68 | 21.21  | 21.50                     |
| EDGE 1 Tx slot  | 25.33                     | 25.27 | 25.38  | 26.50                     | 16.33                     | 16.27 | 16.38  | 17.50                     |
| EDGE 2 Tx slots | 23.23                     | 22.95 | 23.06  | 24.00                     | 17.23                     | 16.95 | 17.06  | 18.00                     |
| EDGE 3 Tx slots | 22.38                     | 21.77 | 21.85  | 23.00                     | 18.12                     | 17.51 | 17.59  | 18.74                     |
| EDGE 4 Tx slots | 21.30                     | 20.63 | 20.77  | 22.00                     | 18.30                     | 17.63 | 17.77  | 19.00                     |

Ant 1

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
| TX Channel      | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                           | 824.2                     | 836.4 | 848.8 |                           |
| GSM 1 Tx slot   | 29.01                     | 29.10 | 28.80 | 29.50                     | 20.01                     | 20.10 | 19.80 | 20.50                     |
| GPRS 1 Tx slot  | 29.04                     | 29.12 | 28.84 | 29.50                     | 20.04                     | 20.12 | 19.84 | 20.50                     |
| GPRS 2 Tx slots | 26.86                     | 26.38 | 26.43 | 27.00                     | 20.86                     | 20.38 | 20.43 | 21.00                     |
| GPRS 3 Tx slots | 24.85                     | 24.51 | 24.54 | 25.50                     | 20.59                     | 20.25 | 20.28 | 21.24                     |
| GPRS 4 Tx slots | 24.27                     | 23.76 | 23.78 | 25.00                     | 21.27                     | 20.76 | 20.78 | 22.00                     |
| EDGE 1 Tx slot  | 26.33                     | 26.23 | 26.20 | 27.50                     | 17.33                     | 17.23 | 17.20 | 18.50                     |
| EDGE 2 Tx slots | 24.69                     | 24.53 | 24.46 | 25.50                     | 18.69                     | 18.53 | 18.46 | 19.50                     |
| EDGE 3 Tx slots | 23.10                     | 22.89 | 23.06 | 24.00                     | 18.84                     | 18.63 | 18.80 | 19.74                     |
| EDGE 4 Tx slots | 22.54                     | 22.29 | 22.27 | 23.50                     | 19.54                     | 19.29 | 19.27 | 20.50                     |

Ant 3

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 27.25                     | 27.40 | 27.39  | 27.50                     | 18.25                     | 18.40 | 18.39  | 18.50                     |
| GPRS 1 Tx slot  | 27.30                     | 27.43 | 27.42  | 27.50                     | 18.30                     | 18.43 | 18.42  | 18.50                     |
| GPRS 2 Tx slots | 24.83                     | 24.90 | 24.94  | 25.00                     | 18.83                     | 18.90 | 18.94  | 19.00                     |
| GPRS 3 Tx slots | 23.30                     | 23.42 | 23.39  | 24.00                     | 19.04                     | 19.16 | 19.13  | 19.74                     |
| GPRS 4 Tx slots | 21.96                     | 21.99 | 21.97  | 22.50                     | 18.96                     | 18.99 | 18.97  | 19.50                     |
| EDGE 1 Tx slot  | 25.18                     | 25.24 | 25.26  | 26.50                     | 16.18                     | 16.24 | 16.26  | 17.50                     |
| EDGE 2 Tx slots | 23.35                     | 22.85 | 22.86  | 24.00                     | 17.35                     | 16.85 | 16.86  | 18.00                     |
| EDGE 3 Tx slots | 22.16                     | 21.67 | 21.74  | 23.00                     | 17.90                     | 17.41 | 17.48  | 18.74                     |
| EDGE 4 Tx slots | 20.60                     | 20.20 | 20.14  | 21.50                     | 17.60                     | 17.20 | 17.14  | 18.50                     |

Ant 1

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
| TX Channel      | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                           | 824.2                     | 836.4 | 848.8 |                           |
| GSM 1 Tx slot   | 29.01                     | 29.10 | 28.80 | 30.00                     | 20.01                     | 20.10 | 19.80 | 21.00                     |
| GPRS 1 Tx slot  | 29.04                     | 29.12 | 28.84 | 30.00                     | 20.04                     | 20.12 | 19.84 | 21.00                     |
| GPRS 2 Tx slots | 26.86                     | 26.38 | 26.43 | 27.50                     | 20.86                     | 20.38 | 20.43 | 21.50                     |
| GPRS 3 Tx slots | 24.85                     | 24.51 | 24.54 | 26.00                     | 20.59                     | 20.25 | 20.28 | 21.74                     |
| GPRS 4 Tx slots | 24.27                     | 23.76 | 23.78 | 25.50                     | 21.27                     | 20.76 | 20.78 | 22.50                     |
| EDGE 1 Tx slot  | 26.33                     | 26.23 | 26.20 | 28.00                     | 17.33                     | 17.23 | 17.20 | 19.00                     |
| EDGE 2 Tx slots | 24.69                     | 24.53 | 24.46 | 26.00                     | 18.69                     | 18.53 | 18.46 | 20.00                     |
| EDGE 3 Tx slots | 23.10                     | 22.89 | 23.06 | 24.50                     | 18.84                     | 18.63 | 18.80 | 20.24                     |
| EDGE 4 Tx slots | 22.54                     | 22.29 | 22.27 | 24.00                     | 19.54                     | 19.29 | 19.27 | 21.00                     |

Ant 3

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 27.25                     | 27.40 | 27.39  | 28.00                     | 18.25                     | 18.40 | 18.39  | 19.00                     |
| GPRS 1 Tx slot  | 27.30                     | 27.43 | 27.42  | 28.00                     | 18.30                     | 18.43 | 18.42  | 19.00                     |
| GPRS 2 Tx slots | 24.83                     | 24.90 | 24.94  | 25.50                     | 18.83                     | 18.90 | 18.94  | 19.50                     |
| GPRS 3 Tx slots | 23.30                     | 23.42 | 23.39  | 24.50                     | 19.04                     | 19.16 | 19.13  | 20.24                     |
| GPRS 4 Tx slots | 21.96                     | 21.99 | 21.97  | 23.00                     | 18.96                     | 18.99 | 18.97  | 20.00                     |
| EDGE 1 Tx slot  | 25.18                     | 25.24 | 25.26  | 27.00                     | 16.18                     | 16.24 | 16.26  | 18.00                     |
| EDGE 2 Tx slots | 23.35                     | 22.85 | 22.86  | 24.50                     | 17.35                     | 16.85 | 16.86  | 18.50                     |
| EDGE 3 Tx slots | 22.16                     | 21.67 | 21.74  | 23.50                     | 17.90                     | 17.41 | 17.48  | 19.24                     |
| EDGE 4 Tx slots | 20.60                     | 20.20 | 20.14  | 22.00                     | 17.60                     | 17.20 | 17.14  | 19.00                     |

Ant 0

| 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) | 824.2                     | 836.4 | 848.8 |                           | 824.2                     | 836.4 | 848.8 |                           |
| GSM 1 Tx slot   | 32.85                     | 32.68 | 32.50 | 33.00                     | 23.85                     | 23.68 | 23.50 | 24.00                     |
| GPRS 1 Tx slot  | 32.90                     | 32.70 | 32.54 | 33.00                     | 23.90                     | 23.70 | 23.54 | 24.00                     |
| GPRS 2 Tx slots | 30.30                     | 29.90 | 29.82 | 31.00                     | 24.30                     | 23.90 | 23.82 | 25.00                     |
| GPRS 3 Tx slots | 28.74                     | 27.96 | 27.91 | 29.50                     | 24.48                     | 23.70 | 23.65 | 25.24                     |
| GPRS 4 Tx slots | 28.56                     | 27.67 | 27.66 | 29.00                     | 25.56                     | 24.67 | 24.66 | 26.00                     |
| EDGE 1 Tx slot  | 26.40                     | 26.25 | 26.12 | 28.00                     | 17.40                     | 17.25 | 17.12 | 19.00                     |
| EDGE 2 Tx slots | 24.63                     | 24.43 | 24.50 | 25.50                     | 18.63                     | 18.43 | 18.50 | 19.50                     |
| EDGE 3 Tx slots | 23.04                     | 22.78 | 22.99 | 24.00                     | 18.78                     | 18.52 | 18.73 | 19.74                     |
| EDGE 4 Tx slots | 22.37                     | 22.22 | 22.32 | 23.50                     | 19.37                     | 19.22 | 19.32 | 20.50                     |

Ant 2

| 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      | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 24.80                     | 24.95 | 24.91  | 25.00                     | 15.80                     | 15.95 | 15.91  | 16.00                     |
| GPRS 1 Tx slot  | 24.84                     | 24.97 | 24.94  | 25.00                     | 15.84                     | 15.97 | 15.94  | 16.00                     |
| GPRS 2 Tx slots | 22.20                     | 22.26 | 22.17  | 22.50                     | 16.20                     | 16.26 | 16.17  | 16.50                     |
| GPRS 3 Tx slots | 19.12                     | 19.22 | 19.19  | 21.00                     | 14.86                     | 14.96 | 14.93  | 16.74                     |
| GPRS 4 Tx slots | 19.08                     | 19.11 | 19.00  | 19.50                     | 16.08                     | 16.11 | 16.00  | 16.50                     |
| EDGE 1 Tx slot  | 23.27                     | 23.27 | 23.27  | 23.50                     | 14.27                     | 14.27 | 14.27  | 14.50                     |
| EDGE 2 Tx slots | 20.71                     | 20.39 | 20.23  | 21.00                     | 14.71                     | 14.39 | 14.23  | 15.00                     |
| EDGE 3 Tx slots | 20.22                     | 19.53 | 19.89  | 20.50                     | 15.96                     | 15.27 | 15.63  | 16.24                     |
| EDGE 4 Tx slots | 17.04                     | 16.70 | 16.68  | 17.50                     | 14.04                     | 13.70 | 13.68  | 14.50                     |

Ant 0

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
| TX Channel      | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                           | 824.2                     | 836.4 | 848.8 |                           |
| GSM 1 Tx slot   | 29.54                     | 29.35 | 29.58 | 30.00                     | 20.54                     | 20.35 | 20.58 | 21.00                     |
| GPRS 1 Tx slot  | 29.56                     | 29.37 | 29.59 | 30.00                     | 20.56                     | 20.37 | 20.59 | 21.00                     |
| GPRS 2 Tx slots | 27.86                     | 27.63 | 27.98 | 28.00                     | 21.86                     | 21.63 | 21.98 | 22.00                     |
| GPRS 3 Tx slots | 26.29                     | 26.16 | 26.10 | 26.50                     | 22.03                     | 21.90 | 21.84 | 22.24                     |
| GPRS 4 Tx slots | 25.38                     | 25.19 | 25.36 | 26.00                     | 22.38                     | 22.19 | 22.36 | 23.00                     |
| EDGE 1 Tx slot  | 26.58                     | 26.54 | 26.50 | 28.00                     | 17.58                     | 17.54 | 17.50 | 19.00                     |
| EDGE 2 Tx slots | 24.92                     | 24.76 | 24.78 | 25.50                     | 18.92                     | 18.76 | 18.78 | 19.50                     |
| EDGE 3 Tx slots | 23.25                     | 23.05 | 23.06 | 24.00                     | 18.99                     | 18.79 | 18.80 | 19.74                     |
| EDGE 4 Tx slots | 22.75                     | 22.33 | 22.44 | 23.50                     | 19.75                     | 19.33 | 19.44 | 20.50                     |

Ant 2

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 20.59                     | 20.61 | 20.55  | 22.00                     | 11.59                     | 11.61 | 11.55  | 13.00                     |
| GPRS 1 Tx slot  | 20.61                     | 20.62 | 20.58  | 22.00                     | 11.61                     | 11.62 | 11.58  | 13.00                     |
| GPRS 2 Tx slots | 18.21                     | 18.28 | 18.87  | 19.50                     | 12.21                     | 12.28 | 12.87  | 13.50                     |
| GPRS 3 Tx slots | 17.53                     | 17.63 | 17.60  | 18.50                     | 13.27                     | 13.37 | 13.34  | 14.24                     |
| GPRS 4 Tx slots | 15.86                     | 15.93 | 15.86  | 17.00                     | 12.86                     | 12.93 | 12.86  | 14.00                     |
| EDGE 1 Tx slot  | 21.05                     | 21.03 | 21.21  | 21.50                     | 12.05                     | 12.03 | 12.21  | 12.50                     |
| EDGE 2 Tx slots | 17.14                     | 17.12 | 17.24  | 18.00                     | 11.14                     | 11.12 | 11.24  | 12.00                     |
| EDGE 3 Tx slots | 17.13                     | 17.22 | 17.36  | 17.50                     | 12.87                     | 12.96 | 13.10  | 13.24                     |
| EDGE 4 Tx slots | 15.53                     | 15.51 | 15.59  | 16.00                     | 12.53                     | 12.51 | 12.59  | 13.00                     |

Ant 0

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
| TX Channel      | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                           | 824.2                     | 836.4 | 848.8 |                           |
| GSM 1 Tx slot   | 29.54                     | 29.35 | 29.58 | 30.50                     | 20.54                     | 20.35 | 20.58 | 21.50                     |
| GPRS 1 Tx slot  | 29.56                     | 29.37 | 29.59 | 30.50                     | 20.56                     | 20.37 | 20.59 | 21.50                     |
| GPRS 2 Tx slots | 27.86                     | 27.63 | 27.98 | 28.50                     | 21.86                     | 21.63 | 21.98 | 22.50                     |
| GPRS 3 Tx slots | 26.29                     | 26.16 | 26.10 | 27.00                     | 22.03                     | 21.90 | 21.84 | 22.74                     |
| GPRS 4 Tx slots | 25.30                     | 25.11 | 25.47 | 26.50                     | 22.30                     | 22.11 | 22.47 | 23.50                     |
| EDGE 1 Tx slot  | 26.58                     | 26.54 | 26.50 | 28.50                     | 17.58                     | 17.54 | 17.50 | 19.50                     |
| EDGE 2 Tx slots | 24.92                     | 24.76 | 24.78 | 26.00                     | 18.92                     | 18.76 | 18.78 | 20.00                     |
| EDGE 3 Tx slots | 23.25                     | 23.05 | 23.06 | 24.50                     | 18.99                     | 18.79 | 18.80 | 20.24                     |
| EDGE 4 Tx slots | 22.75                     | 22.33 | 22.44 | 24.00                     | 19.75                     | 19.33 | 19.44 | 21.00                     |

Ant 2

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 20.59                     | 20.61 | 20.55  | 22.50                     | 11.59                     | 11.61 | 11.55  | 13.50                     |
| GPRS 1 Tx slot  | 20.61                     | 20.62 | 20.58  | 22.50                     | 11.61                     | 11.62 | 11.58  | 13.50                     |
| GPRS 2 Tx slots | 18.21                     | 18.28 | 18.87  | 20.00                     | 12.21                     | 12.28 | 12.87  | 14.00                     |
| GPRS 3 Tx slots | 17.53                     | 17.63 | 17.60  | 19.00                     | 13.27                     | 13.37 | 13.34  | 14.74                     |
| GPRS 4 Tx slots | 15.86                     | 15.93 | 15.86  | 17.50                     | 12.86                     | 12.93 | 12.86  | 14.50                     |
| EDGE 1 Tx slot  | 21.05                     | 21.03 | 21.21  | 22.00                     | 12.05                     | 12.03 | 12.21  | 13.00                     |
| EDGE 2 Tx slots | 17.14                     | 17.12 | 17.24  | 18.50                     | 11.14                     | 11.12 | 11.24  | 12.50                     |
| EDGE 3 Tx slots | 17.13                     | 17.22 | 17.36  | 18.00                     | 12.87                     | 12.96 | 13.10  | 13.74                     |
| EDGE 4 Tx slots | 15.53                     | 15.51 | 15.59  | 16.50                     | 12.53                     | 12.51 | 12.59  | 13.50                     |



Ant 0

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
| TX Channel      | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                           | 824.2                     | 836.4 | 848.8 |                           |
| GSM 1 Tx slot   | 31.58                     | 31.35 | 31.60 | 32.00                     | 22.58                     | 22.35 | 22.60 | 23.00                     |
| GPRS 1 Tx slot  | 31.60                     | 31.37 | 31.64 | 32.00                     | 22.60                     | 22.37 | 22.64 | 23.00                     |
| GPRS 2 Tx slots | 29.29                     | 28.72 | 28.85 | 30.00                     | 23.29                     | 22.72 | 22.85 | 24.00                     |
| GPRS 3 Tx slots | 28.37                     | 27.69 | 27.57 | 28.50                     | 24.11                     | 23.43 | 23.31 | 24.24                     |
| GPRS 4 Tx slots | 27.39                     | 26.56 | 26.93 | 28.00                     | 24.39                     | 23.56 | 23.93 | 25.00                     |
| EDGE 1 Tx slot  | 26.32                     | 26.04 | 26.25 | 27.50                     | 17.32                     | 17.04 | 17.25 | 18.50                     |
| EDGE 2 Tx slots | 24.43                     | 24.45 | 24.27 | 25.50                     | 18.43                     | 18.45 | 18.27 | 19.50                     |
| EDGE 3 Tx slots | 22.99                     | 22.89 | 22.83 | 24.00                     | 18.73                     | 18.63 | 18.57 | 19.74                     |
| EDGE 4 Tx slots | 22.35                     | 22.23 | 22.23 | 23.50                     | 19.35                     | 19.23 | 19.23 | 20.50                     |

Ant 2

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 26.08                     | 26.25 | 26.21  | 26.50                     | 17.08                     | 17.25 | 17.21  | 17.50                     |
| GPRS 1 Tx slot  | 26.11                     | 26.27 | 26.24  | 26.50                     | 17.11                     | 17.27 | 17.24  | 17.50                     |
| GPRS 2 Tx slots | 23.42                     | 23.50 | 23.40  | 24.00                     | 17.42                     | 17.50 | 17.40  | 18.00                     |
| GPRS 3 Tx slots | 22.49                     | 22.53 | 22.42  | 23.00                     | 18.23                     | 18.27 | 18.16  | 18.74                     |
| GPRS 4 Tx slots | 18.92                     | 18.94 | 18.87  | 20.50                     | 15.92                     | 15.94 | 15.87  | 17.50                     |
| EDGE 1 Tx slot  | 25.14                     | 25.22 | 25.04  | 25.50                     | 16.14                     | 16.22 | 16.04  | 16.50                     |
| EDGE 2 Tx slots | 22.27                     | 21.99 | 21.85  | 22.50                     | 16.27                     | 15.99 | 15.85  | 16.50                     |
| EDGE 3 Tx slots | 21.17                     | 20.75 | 20.69  | 21.50                     | 16.91                     | 16.49 | 16.43  | 17.24                     |
| EDGE 4 Tx slots | 19.95                     | 19.27 | 19.61  | 20.00                     | 16.95                     | 16.27 | 16.61  | 17.00                     |

Ant 0

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
| TX Channel      | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                           | 824.2                     | 836.4 | 848.8 |                           |
| GSM 1 Tx slot   | 29.55                     | 29.32 | 29.56 | 30.00                     | 20.55                     | 20.32 | 20.56 | 21.00                     |
| GPRS 1 Tx slot  | 29.59                     | 29.36 | 29.58 | 30.00                     | 20.59                     | 20.36 | 20.58 | 21.00                     |
| GPRS 2 Tx slots | 27.96                     | 27.44 | 27.75 | 28.00                     | 21.96                     | 21.44 | 21.75 | 22.00                     |
| GPRS 3 Tx slots | 26.39                     | 25.89 | 25.82 | 26.50                     | 22.13                     | 21.63 | 21.56 | 22.24                     |
| GPRS 4 Tx slots | 25.39                     | 24.82 | 25.14 | 26.00                     | 22.39                     | 21.82 | 22.14 | 23.00                     |
| EDGE 1 Tx slot  | 26.44                     | 26.30 | 26.30 | 27.50                     | 17.44                     | 17.30 | 17.30 | 18.50                     |
| EDGE 2 Tx slots | 24.91                     | 24.60 | 24.68 | 25.50                     | 18.91                     | 18.60 | 18.68 | 19.50                     |
| EDGE 3 Tx slots | 23.19                     | 22.93 | 22.98 | 24.00                     | 18.93                     | 18.67 | 18.72 | 19.74                     |
| EDGE 4 Tx slots | 22.56                     | 22.20 | 22.42 | 23.50                     | 19.56                     | 19.20 | 19.42 | 20.50                     |

Ant 2

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 24.50                     | 24.65 | 24.55  | 25.00                     | 15.50                     | 15.65 | 15.55  | 16.00                     |
| GPRS 1 Tx slot  | 24.54                     | 24.69 | 24.59  | 25.00                     | 15.54                     | 15.69 | 15.59  | 16.00                     |
| GPRS 2 Tx slots | 20.50                     | 20.54 | 20.50  | 22.50                     | 14.50                     | 14.54 | 14.50  | 16.50                     |
| GPRS 3 Tx slots | 21.44                     | 21.49 | 21.48  | 21.50                     | 17.18                     | 17.23 | 17.22  | 17.24                     |
| GPRS 4 Tx slots | 18.15                     | 18.23 | 18.83  | 20.00                     | 15.15                     | 15.23 | 15.83  | 17.00                     |
| EDGE 1 Tx slot  | 23.04                     | 22.99 | 22.78  | 23.50                     | 14.04                     | 13.99 | 13.78  | 14.50                     |
| EDGE 2 Tx slots | 20.80                     | 20.61 | 20.65  | 21.00                     | 14.80                     | 14.61 | 14.65  | 15.00                     |
| EDGE 3 Tx slots | 19.74                     | 19.34 | 19.25  | 20.00                     | 15.48                     | 15.08 | 14.99  | 15.74                     |
| EDGE 4 Tx slots | 16.76                     | 16.45 | 16.29  | 17.00                     | 13.76                     | 13.45 | 13.29  | 14.00                     |

Ant 0

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
| TX Channel      | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                           | 824.2                     | 836.4 | 848.8 |                           |
| GSM 1 Tx slot   | 29.55                     | 29.32 | 29.56 | 30.50                     | 20.55                     | 20.32 | 20.56 | 21.50                     |
| GPRS 1 Tx slot  | 29.59                     | 29.36 | 29.58 | 30.50                     | 20.59                     | 20.36 | 20.58 | 21.50                     |
| GPRS 2 Tx slots | 27.96                     | 27.44 | 27.75 | 28.50                     | 21.96                     | 21.44 | 21.75 | 22.50                     |
| GPRS 3 Tx slots | 26.39                     | 25.89 | 25.82 | 27.00                     | 22.13                     | 21.63 | 21.56 | 22.74                     |
| GPRS 4 Tx slots | 25.39                     | 24.82 | 25.14 | 26.50                     | 22.39                     | 21.82 | 22.14 | 23.50                     |
| EDGE 1 Tx slot  | 26.44                     | 26.30 | 26.30 | 28.00                     | 17.44                     | 17.30 | 17.30 | 19.00                     |
| EDGE 2 Tx slots | 24.91                     | 24.60 | 24.68 | 26.00                     | 18.91                     | 18.60 | 18.68 | 20.00                     |
| EDGE 3 Tx slots | 23.19                     | 22.93 | 22.98 | 24.50                     | 18.93                     | 18.67 | 18.72 | 20.24                     |
| EDGE 4 Tx slots | 22.56                     | 22.20 | 22.42 | 24.00                     | 19.56                     | 19.20 | 19.42 | 21.00                     |

Ant 2

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 24.50                     | 24.65 | 24.55  | 25.00                     | 15.50                     | 15.65 | 15.55  | 16.00                     |
| GPRS 1 Tx slot  | 24.54                     | 24.69 | 24.59  | 25.00                     | 15.54                     | 15.69 | 15.59  | 16.00                     |
| GPRS 2 Tx slots | 20.50                     | 20.54 | 20.50  | 22.50                     | 14.50                     | 14.54 | 14.50  | 16.50                     |
| GPRS 3 Tx slots | 21.44                     | 21.49 | 21.50  | 21.50                     | 17.18                     | 17.23 | 17.24  | 17.24                     |
| GPRS 4 Tx slots | 18.15                     | 18.23 | 18.83  | 20.00                     | 15.15                     | 15.23 | 15.83  | 17.00                     |
| EDGE 1 Tx slot  | 23.04                     | 22.99 | 22.78  | 23.50                     | 14.04                     | 13.99 | 13.78  | 14.50                     |
| EDGE 2 Tx slots | 20.80                     | 20.61 | 20.65  | 21.00                     | 14.80                     | 14.61 | 14.65  | 15.00                     |
| EDGE 3 Tx slots | 19.74                     | 19.34 | 19.25  | 20.00                     | 15.48                     | 15.08 | 14.99  | 15.74                     |
| EDGE 4 Tx slots | 16.76                     | 16.45 | 16.29  | 17.00                     | 13.76                     | 13.45 | 13.29  | 14.00                     |

### <WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required
3. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the
4. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1"
5. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is  $\leq \frac{1}{4}$  dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is  $\leq 1.2$  W/kg, SAR

A summary of these settings are illustrated below:

### HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
  - i. Set Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters were set according to each
  - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
  - iii. Set RMC 12.2Kbps + HSDPA mode.
  - iv. Set Cell Power = -86 dBm
  - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
  - vi. Select HSDPA Uplink Parameters
  - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
  - viii. Set Ack-Nack Repetition Factor to 3
  - ix. Set CQI Feedback Cycle (k) to 4 ms
  - x. Set CQI Repetition Factor to 2
  - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

**Table C.10.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH**

| Sub-test | $\beta_c$         | $\beta_d$         | $\beta_d$<br>(SF) | $\beta_c/\beta_d$ | $\beta_{hs}$<br>(Note 1,<br>Note 2) | CM (dB)<br>(Note 3) | MPR (dB)<br>(Note 3) |
|----------|-------------------|-------------------|-------------------|-------------------|-------------------------------------|---------------------|----------------------|
| 1        | 2/15              | 15/15             | 64                | 2/15              | 4/15                                | 0.0                 | 0.0                  |
| 2        | 12/15<br>(Note 4) | 15/15<br>(Note 4) | 64                | 12/15<br>(Note 4) | 24/15                               | 1.0                 | 0.0                  |
| 3        | 15/15             | 8/15              | 64                | 15/8              | 30/15                               | 1.5                 | 0.5                  |
| 4        | 15/15             | 4/15              | 64                | 15/4              | 30/15                               | 1.5                 | 0.5                  |

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ .

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA,  $\Delta_{ACK}$  and  $\Delta_{NACK} = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ , and  $\Delta_{CQI} = 24/15$  with  $\beta_{hs} = 24/15 * \beta_c$ .

Note 3: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the  $\beta_c/\beta_d$  ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 11/15$  and  $\beta_d = 15/15$ .

### Setup Configuration

### HSUPA Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting \* :
  - Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
  - Set the Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters (AG Index) were set according to each specific sub-test in
  - Set Cell Power = -86 dBm
  - Set Channel Type = 12.2k + HSPA
  - Set UE Target Power
  - Power Ctrl Mode= Alternating bits
  - Set and observe the E-TFCI
  - Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- The transmitted maximum output power was recorded.

**Table C.11.1.3:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH**

| Sub-test | $\beta_c$      | $\beta_d$      | $\beta_d$ (SF) | $\beta_c/\beta_d$ | $\beta_{HS}$ (Note1) | $\beta_{ec}$ | $\beta_{ed}$ (Note 4) (Note 5)                 | $\beta_{ed}$ (SF) | $\beta_{ed}$ (Codes) | CM (dB) (Note 2) | MPR (dB) (Note 2) (Note 6) | AG Index (Note 5) | E-TFCI |
|----------|----------------|----------------|----------------|-------------------|----------------------|--------------|------------------------------------------------|-------------------|----------------------|------------------|----------------------------|-------------------|--------|
| 1        | 11/15 (Note 3) | 15/15 (Note 3) | 64             | 11/15 (Note 3)    | 22/15                | 209/25       | 1309/225                                       | 4                 | 1                    | 1.0              | 0.0                        | 20                | 75     |
| 2        | 6/15           | 15/15          | 64             | 6/15              | 12/15                | 12/15        | 94/75                                          | 4                 | 1                    | 3.0              | 2.0                        | 12                | 67     |
| 3        | 15/15          | 9/15           | 64             | 15/9              | 30/15                | 30/15        | $\beta_{ed1}$ : 47/15<br>$\beta_{ed2}$ : 47/15 | 4<br>4            | 2                    | 2.0              | 1.0                        | 15                | 92     |
| 4        | 2/15           | 15/15          | 64             | 2/15              | 4/15                 | 2/15         | 56/75                                          | 4                 | 1                    | 3.0              | 2.0                        | 17                | 71     |
| 5        | 15/15          | 0              | -              | -                 | 5/15                 | 5/15         | 47/15                                          | 4                 | 1                    | 1.0              | 0.0                        | 12                | 67     |

Note 1: For sub-test 1 to 4,  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ . For sub-test 5,  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 5/15$  with  $\beta_{hs} = 5/15 * \beta_c$ .

Note 2: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the  $\beta_c/\beta_d$  ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF0) to  $\beta_c = 10/15$  and  $\beta_d = 15/15$ .

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5:  $\beta_{ed}$  can not be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

### Setup Configuration

### DC-HSDPA 3GPP release 8 Setup Configuration:

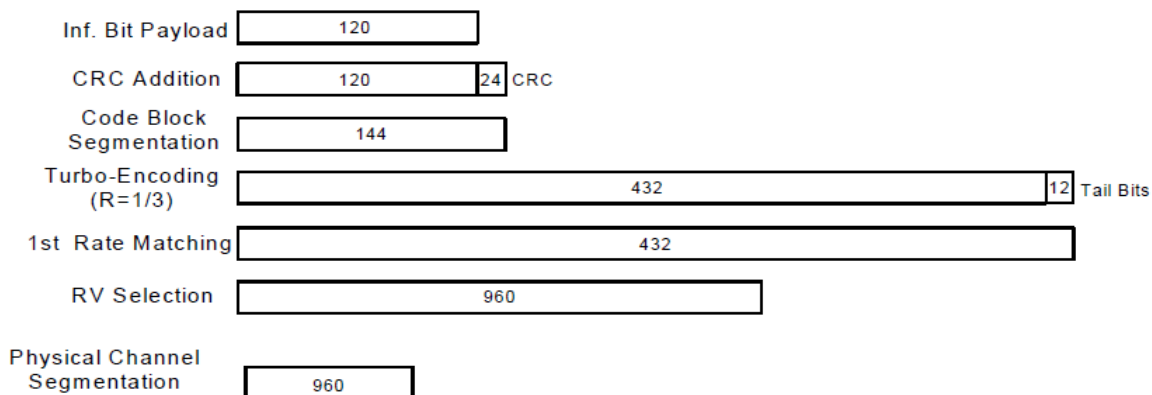
- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration below
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting:
  - Set RMC 12.2Kbps + HSDPA mode.
  - Set Cell Power = -25 dBm
  - Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
  - Select HSDPA Uplink Parameters
  - Set Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters were set according to each Specific sub-test in the following table, C10.1.4
    - Subtest 1:  $\beta_c/\beta_d=2/15$
    - Subtest 2:  $\beta_c/\beta_d=12/15$
    - Subtest 3:  $\beta_c/\beta_d=15/8$
    - Subtest 4:  $\beta_c/\beta_d=15/4$
  - Set Delta ACK, Delta NACK and Delta CQI = 8
  - Set Ack-Nack Repetition Factor to 3
  - Set CQI Feedback Cycle (k) to 4 ms
  - Set CQI Repetition Factor to 2
  - Power Ctrl Mode = All Up bits
- The transmitted maximum output power was recorded.

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.  
A summary of these settings are illustrated below:

### C.8.1.12 Fixed Reference Channel Definition H-Set 12

**Table C.8.1.12: Fixed Reference Channel H-Set 12**

| Parameter                                                                                                                                                                                                                                                                                          | Unit      | Value |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------|
| Nominal Avg. Inf. Bit Rate                                                                                                                                                                                                                                                                         | kbps      | 60    |
| Inter-TTI Distance                                                                                                                                                                                                                                                                                 | TTI's     | 1     |
| Number of HARQ Processes                                                                                                                                                                                                                                                                           | Processes | 6     |
| Information Bit Payload ( $N_{INF}$ )                                                                                                                                                                                                                                                              | Bits      | 120   |
| Number Code Blocks                                                                                                                                                                                                                                                                                 | Blocks    | 1     |
| Binary Channel Bits Per TTI                                                                                                                                                                                                                                                                        | Bits      | 960   |
| Total Available SML's in UE                                                                                                                                                                                                                                                                        | SML's     | 19200 |
| Number of SML's per HARQ Proc.                                                                                                                                                                                                                                                                     | SML's     | 3200  |
| Coding Rate                                                                                                                                                                                                                                                                                        |           | 0.15  |
| Number of Physical Channel Codes                                                                                                                                                                                                                                                                   | Codes     | 1     |
| Modulation                                                                                                                                                                                                                                                                                         |           | QPSK  |
| Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.<br>Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used. |           |       |



**Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK) Setup Configuration**



| Ant 3           |                    |          |       |        | Ant 3                     |          |        |                                                                                         |                           | Ant 1   |       |       |                           |      |
|-----------------|--------------------|----------|-------|--------|---------------------------|----------|--------|-----------------------------------------------------------------------------------------|---------------------------|---------|-------|-------|---------------------------|------|
| 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 <th rowspan="2">4132</th> <th rowspan="2">4182</th> <th rowspan="2">4233</th>      |                           | 4132    | 4182  | 4233  |                           |      |
| Rx Channel      |                    | 9662     | 9800  | 9938   |                           |          |        |                                                                                         |                           |         |       |       |                           | 1537 |
| Frequency (MHz) |                    | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 <th rowspan="2">826.4</th> <th rowspan="2">836.4</th> <th rowspan="2">846.6</th> |                           | 826.4   | 836.4 | 846.6 |                           |      |
|                 |                    |          |       |        |                           |          |        |                                                                                         |                           |         |       |       |                           |      |
| 3GPP Rel 99     | AMR 12.2Kbps       | 22.83    | 22.88 | 22.94  | 24.00                     | 22.93    | 22.95  | 22.93                                                                                   | 24.00                     | 23.98   | 24.01 | 23.98 | 25.00                     |      |
| 3GPP Rel 99     | RMC 12.2Kbps       | 22.85    | 22.90 | 22.96  | 24.00                     | 22.94    | 22.97  | 22.94                                                                                   | 24.00                     | 23.99   | 24.03 | 23.99 | 25.00                     |      |
| 3GPP Rel 6      | HSDPA Subtest-1    | 22.42    | 22.47 | 22.48  | 23.50                     | 22.47    | 22.52  | 22.51                                                                                   | 23.50                     | 22.99   | 23.04 | 23.01 | 24.50                     |      |
| 3GPP Rel 6      | HSDPA Subtest-2    | 22.44    | 22.46 | 22.48  | 23.50                     | 22.46    | 22.53  | 22.50                                                                                   | 23.50                     | 23.00   | 23.04 | 23.01 | 24.50                     |      |
| 3GPP Rel 6      | HSDPA Subtest-3    | 21.39    | 21.45 | 21.52  | 23.00                     | 21.46    | 21.51  | 21.49                                                                                   | 23.00                     | 22.50   | 22.54 | 22.52 | 24.00                     |      |
| 3GPP Rel 6      | HSDPA Subtest-4    | 21.39    | 21.44 | 21.51  | 23.00                     | 21.45    | 21.52  | 21.48                                                                                   | 23.00                     | 22.48   | 22.53 | 22.51 | 24.00                     |      |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 22.39    | 22.45 | 22.39  | 23.50                     | 22.41    | 22.45  | 22.48                                                                                   | 23.50                     | 22.94   | 22.95 | 22.97 | 24.50                     |      |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 22.40    | 22.44 | 22.42  | 23.50                     | 22.39    | 22.44  | 22.44                                                                                   | 23.50                     | 22.97   | 23.01 | 23.01 | 24.50                     |      |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 21.37    | 21.36 | 21.43  | 23.00                     | 21.43    | 21.48  | 21.47                                                                                   | 23.00                     | 22.46   | 22.46 | 22.49 | 24.00                     |      |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 21.33    | 21.37 | 21.44  | 23.00                     | 21.45    | 21.46  | 21.48                                                                                   | 23.00                     | 22.38   | 22.43 | 22.42 | 24.00                     |      |
| 3GPP Rel 6      | HSUPA Subtest-1    | 22.46    | 22.21 | 22.50  | 23.50                     | 22.18    | 22.54  | 22.51                                                                                   | 23.50                     | 22.99   | 23.02 | 23.00 | 24.50                     |      |
| 3GPP Rel 6      | HSUPA Subtest-2    | 19.92    | 19.97 | 20.04  | 21.50                     | 19.96    | 20.02  | 19.98                                                                                   | 21.50                     | 18.98   | 19.01 | 18.98 | 22.50                     |      |
| 3GPP Rel 6      | HSUPA Subtest-3    | 20.92    | 20.97 | 21.03  | 22.50                     | 20.96    | 21.02  | 21.00                                                                                   | 22.50                     | 19.50   | 19.51 | 19.41 | 23.50                     |      |
| 3GPP Rel 6      | HSUPA Subtest-4    | 19.91    | 19.97 | 20.03  | 21.50                     | 19.98    | 20.03  | 19.98                                                                                   | 21.50                     | 18.98   | 19.03 | 18.97 | 22.50                     |      |
| 3GPP Rel 6      | HSUPA Subtest-5    | 22.40    | 22.50 | 22.50  | 23.50                     | 22.50    | 22.50  | 22.50                                                                                   | 23.50                     | 23.00   | 23.00 | 23.00 | 24.50                     |      |

| Ant 3           |                    |          |       |        | Ant 3               |          |       |                                                                                    | Ant 1               |         |       |       |                     |
|-----------------|--------------------|----------|-------|--------|---------------------|----------|-------|------------------------------------------------------------------------------------|---------------------|---------|-------|-------|---------------------|
| Band            |                    | WCDMA II |       |        | Tune-up Limit (dBm) | WCDMA IV |       |                                                                                    | Tune-up Limit (dBm) | WCDMA V |       |       | Tune-up Limit (dBm) |
| TX Channel      |                    | 9262     | 9400  | 9538   |                     | 1312     | 1413  | 1513 <th rowspan="4">4132</th> <th rowspan="4">4182</th> <th rowspan="4">4233</th> |                     | 4132    | 4182  | 4233  |                     |
| Rx Channel      |                    | 9662     | 9800  | 9938   |                     |          |       |                                                                                    |                     |         |       |       |                     |
| Frequency (MHz) |                    | 1852.4   | 1880  | 1907.6 |                     |          |       |                                                                                    |                     |         |       |       |                     |
|                 |                    |          |       |        |                     |          |       |                                                                                    |                     |         |       |       |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 20.90    | 20.95 | 20.97  | 22.00               | 20.45    | 20.57 | 20.50                                                                              | 21.50               | 23.47   | 23.51 | 23.46 | 24.50               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 20.92    | 20.99 | 21.00  | 22.00               | 20.49    | 20.58 | 20.53                                                                              | 21.50               | 23.51   | 23.56 | 23.51 | 24.50               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 20.49    | 20.49 | 20.52  | 21.50               | 20.07    | 20.08 | 20.05                                                                              | 21.00               | 22.51   | 22.55 | 22.53 | 24.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 20.47    | 20.55 | 20.51  | 21.50               | 20.01    | 20.08 | 20.05                                                                              | 21.00               | 22.52   | 22.56 | 22.52 | 24.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 19.48    | 19.53 | 19.54  | 21.00               | 19.08    | 19.10 | 19.03                                                                              | 20.50               | 22.04   | 22.05 | 22.01 | 23.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 19.44    | 19.53 | 19.56  | 21.00               | 19.04    | 19.06 | 19.04                                                                              | 20.50               | 22.05   | 22.06 | 22.04 | 23.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 20.55    | 20.48 | 20.43  | 21.50               | 20.16    | 20.11 | 20.04                                                                              | 21.00               | 22.52   | 22.46 | 22.49 | 24.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 20.39    | 20.47 | 20.59  | 21.50               | 20.02    | 20.04 | 20.01                                                                              | 21.00               | 22.56   | 22.50 | 22.47 | 24.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 19.56    | 19.59 | 19.57  | 21.00               | 19.17    | 19.01 | 18.97                                                                              | 20.50               | 21.94   | 22.01 | 22.02 | 23.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 19.42    | 19.54 | 19.52  | 21.00               | 19.02    | 19.08 | 18.97                                                                              | 20.50               | 22.14   | 22.03 | 22.06 | 23.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 20.49    | 20.51 | 20.54  | 22.00               | 19.71    | 19.79 | 19.77                                                                              | 21.00               | 22.55   | 22.53 | 22.56 | 24.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 18.00    | 18.02 | 18.02  | 20.00               | 17.54    | 17.55 | 17.49                                                                              | 19.00               | 18.53   | 18.57 | 18.55 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 19.01    | 19.03 | 19.05  | 21.00               | 18.55    | 18.56 | 18.57                                                                              | 20.00               | 19.00   | 19.06 | 19.01 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 18.00    | 18.04 | 18.01  | 20.00               | 17.57    | 17.59 | 17.55                                                                              | 19.00               | 18.51   | 18.54 | 18.53 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 20.50    | 20.50 | 20.50  | 22.00               | 20.00    | 20.00 | 20.10                                                                              | 21.00               | 22.50   | 22.50 | 22.50 | 24.00               |





| Ant 3           |                    |          |       |        | Ant 3                     |                      |       |       |                           | Ant 1             |       |       |                           |  |
|-----------------|--------------------|----------|-------|--------|---------------------------|----------------------|-------|-------|---------------------------|-------------------|-------|-------|---------------------------|--|
| 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 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       | 18.83    | 18.90 | 18.89  | 20.00                     | 18.42                | 18.53 | 18.51 | 19.50                     | 22.01             | 22.06 | 22.02 | 23.00                     |  |
| 3GPP Rel 99     | RMC 12.2Kbps       | 18.88    | 18.93 | 18.90  | 20.00                     | 18.46                | 18.55 | 18.50 | 19.50                     | 22.05             | 22.07 | 22.05 | 23.00                     |  |
| 3GPP Rel 6      | HSDPA Subtest-1    | 18.36    | 18.44 | 18.48  | 19.00                     | 18.03                | 18.04 | 17.99 | 18.50                     | 21.08             | 21.07 | 21.02 | 22.00                     |  |
| 3GPP Rel 6      | HSDPA Subtest-2    | 18.38    | 18.45 | 18.49  | 19.00                     | 18.00                | 18.09 | 17.99 | 18.50                     | 21.06             | 21.06 | 21.04 | 22.00                     |  |
| 3GPP Rel 6      | HSDPA Subtest-3    | 17.37    | 17.43 | 17.50  | 18.50                     | 16.97                | 17.06 | 16.99 | 18.00                     | 20.56             | 20.57 | 20.53 | 21.50                     |  |
| 3GPP Rel 6      | HSDPA Subtest-4    | 17.37    | 17.47 | 17.48  | 18.50                     | 16.98                | 17.06 | 16.99 | 18.00                     | 20.59             | 20.54 | 20.54 | 21.50                     |  |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 18.33    | 18.50 | 18.42  | 19.00                     | 18.10                | 18.04 | 18.07 | 18.50                     | 21.17             | 21.10 | 21.12 | 22.00                     |  |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 18.44    | 18.35 | 18.57  | 19.00                     | 17.96                | 18.11 | 17.95 | 18.50                     | 21.07             | 21.12 | 21.02 | 22.00                     |  |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 17.27    | 17.36 | 17.41  | 18.50                     | 17.03                | 17.13 | 17.07 | 18.00                     | 20.65             | 20.47 | 20.55 | 21.50                     |  |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 17.40    | 17.54 | 17.53  | 18.50                     | 16.96                | 17.15 | 16.90 | 18.00                     | 20.58             | 20.61 | 20.49 | 21.50                     |  |
| 3GPP Rel 6      | HSUPA Subtest-1    | 18.43    | 18.39 | 18.47  | 19.00                     | 17.70                | 17.72 | 17.66 | 18.50                     | 21.04             | 21.08 | 21.04 | 22.00                     |  |
| 3GPP Rel 6      | HSUPA Subtest-2    | 15.94    | 15.90 | 15.94  | 17.00                     | 15.54                | 15.53 | 15.47 | 16.50                     | 17.10             | 17.10 | 17.10 | 18.50                     |  |
| 3GPP Rel 6      | HSUPA Subtest-3    | 16.83    | 16.95 | 16.92  | 18.00                     | 16.50                | 16.53 | 16.51 | 17.50                     | 17.57             | 17.56 | 17.55 | 19.00                     |  |
| 3GPP Rel 6      | HSUPA Subtest-4    | 15.94    | 15.92 | 15.98  | 17.00                     | 15.47                | 15.50 | 15.49 | 16.50                     | 17.05             | 17.10 | 17.08 | 18.50                     |  |
| 3GPP Rel 6      | HSUPA Subtest-5    | 18.40    | 18.40 | 18.50  | 19.00                     | 18.00                | 18.10 | 18.00 | 18.50                     | 21.10             | 21.10 | 21.00 | 22.00                     |  |



|                 |                    | Ant 3    |       |        |                           | Ant 3    |        |        |                           | Ant 1   |       |       |                           |
|-----------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| 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  | 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       | 18.83    | 18.90 | 18.89  | 20.50                     | 18.42    | 18.53  | 18.51  | 20.00                     | 22.01   | 22.06 | 22.02 | 23.50                     |
| 3GPP Rel 99     | RMC 12.2Kbps       | 18.88    | 18.93 | 18.93  | 20.50                     | 18.46    | 18.55  | 18.50  | 20.00                     | 22.05   | 22.07 | 22.05 | 23.50                     |
| 3GPP Rel 6      | HSDPA Subtest-1    | 18.36    | 18.44 | 18.48  | 19.50                     | 18.03    | 18.04  | 17.99  | 19.00                     | 21.08   | 21.07 | 21.02 | 22.50                     |
| 3GPP Rel 6      | HSDPA Subtest-2    | 18.38    | 18.45 | 18.49  | 19.50                     | 18.00    | 18.09  | 17.99  | 19.00                     | 21.06   | 21.06 | 21.04 | 22.50                     |
| 3GPP Rel 6      | HSDPA Subtest-3    | 17.37    | 17.43 | 17.50  | 19.00                     | 16.97    | 17.06  | 16.99  | 18.50                     | 20.56   | 20.57 | 20.53 | 22.00                     |
| 3GPP Rel 6      | HSDPA Subtest-4    | 17.37    | 17.47 | 17.48  | 19.00                     | 16.98    | 17.06  | 16.99  | 18.50                     | 20.59   | 20.54 | 20.54 | 22.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 18.33    | 18.50 | 18.42  | 19.50                     | 18.10    | 18.04  | 18.07  | 19.00                     | 21.17   | 21.10 | 21.12 | 22.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 18.44    | 18.35 | 18.57  | 19.50                     | 17.96    | 18.11  | 17.95  | 19.00                     | 21.07   | 21.12 | 21.02 | 22.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 17.27    | 17.36 | 17.41  | 19.00                     | 17.03    | 17.13  | 17.07  | 18.50                     | 20.65   | 20.47 | 20.55 | 22.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 17.40    | 17.54 | 17.53  | 19.00                     | 16.96    | 17.15  | 16.90  | 18.50                     | 20.58   | 20.61 | 20.49 | 22.00                     |
| 3GPP Rel 6      | HSUPA Subtest-1    | 18.43    | 18.39 | 18.47  | 19.50                     | 17.70    | 17.72  | 17.66  | 19.00                     | 21.04   | 21.08 | 21.04 | 22.50                     |
| 3GPP Rel 6      | HSUPA Subtest-2    | 15.94    | 15.90 | 15.94  | 17.50                     | 15.54    | 15.53  | 15.47  | 17.00                     | 17.10   | 17.10 | 17.10 | 19.00                     |
| 3GPP Rel 6      | HSUPA Subtest-3    | 16.83    | 16.95 | 16.92  | 18.50                     | 16.50    | 16.53  | 16.51  | 18.00                     | 17.57   | 17.56 | 17.55 | 19.50                     |
| 3GPP Rel 6      | HSUPA Subtest-4    | 15.94    | 15.92 | 15.98  | 17.50                     | 15.47    | 15.50  | 15.49  | 17.00                     | 17.05   | 17.10 | 17.08 | 19.00                     |
| 3GPP Rel 6      | HSUPA Subtest-5    | 18.40    | 18.40 | 18.50  | 19.50                     | 18.00    | 18.10  | 18.00  | 19.00                     | 21.10   | 21.10 | 21.00 | 22.50                     |



| PORTON LAB.     |                    | Ant 2    |       |        |                           | Ant 2    |        |        |                           | Ant 0   |       |       |                           |
|-----------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| 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  | 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       | 15.77    | 15.75 | 15.71  | 17.00                     | 15.26    | 15.28  | 15.23  | 16.50                     | 24.01   | 24.00 | 23.98 | 25.00                     |
| 3GPP Rel 99     | RMC 12.2Kbps       | 15.87    | 15.85 | 15.83  | 17.00                     | 15.31    | 15.36  | 15.34  | 16.50                     | 24.03   | 24.02 | 23.98 | 25.00                     |
| 3GPP Rel 6      | HSDPA Subtest-1    | 15.35    | 15.35 | 15.37  | 16.00                     | 14.87    | 14.89  | 14.88  | 15.50                     | 23.00   | 23.04 | 23.01 | 24.50                     |
| 3GPP Rel 6      | HSDPA Subtest-2    | 15.35    | 15.40 | 15.34  | 16.00                     | 14.85    | 14.88  | 14.89  | 15.50                     | 23.00   | 23.04 | 23.01 | 24.50                     |
| 3GPP Rel 6      | HSDPA Subtest-3    | 14.37    | 14.37 | 14.38  | 15.50                     | 13.79    | 13.84  | 13.91  | 15.00                     | 22.51   | 22.53 | 22.49 | 24.00                     |
| 3GPP Rel 6      | HSDPA Subtest-4    | 14.38    | 14.39 | 14.37  | 15.50                     | 13.79    | 13.85  | 13.89  | 15.00                     | 22.50   | 22.52 | 22.51 | 24.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 15.26    | 15.35 | 15.42  | 16.00                     | 14.81    | 14.96  | 14.93  | 15.50                     | 22.96   | 22.97 | 22.95 | 23.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 15.30    | 15.50 | 15.26  | 16.00                     | 14.75    | 14.83  | 14.80  | 15.50                     | 22.96   | 23.01 | 22.93 | 23.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 14.33    | 14.35 | 14.37  | 15.50                     | 13.89    | 13.74  | 13.93  | 15.00                     | 22.48   | 22.51 | 22.47 | 23.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 14.44    | 14.30 | 14.43  | 15.50                     | 13.77    | 13.94  | 13.99  | 15.00                     | 22.42   | 22.46 | 22.47 | 23.00                     |
| 3GPP Rel 6      | HSUPA Subtest-1    | 13.85    | 13.88 | 13.85  | 14.00                     | 13.28    | 13.35  | 13.34  | 14.00                     | 22.98   | 23.01 | 22.99 | 24.50                     |
| 3GPP Rel 6      | HSUPA Subtest-2    | 12.88    | 12.91 | 12.86  | 14.00                     | 12.34    | 12.35  | 12.34  | 13.50                     | 18.97   | 19.00 | 18.98 | 22.50                     |
| 3GPP Rel 6      | HSUPA Subtest-3    | 13.39    | 13.40 | 13.37  | 15.00                     | 12.82    | 12.85  | 12.84  | 14.50                     | 19.48   | 19.50 | 19.44 | 23.50                     |
| 3GPP Rel 6      | HSUPA Subtest-4    | 12.89    | 12.92 | 12.85  | 14.00                     | 12.35    | 12.35  | 12.36  | 13.50                     | 18.93   | 18.99 | 18.95 | 22.50                     |
| 3GPP Rel 6      | HSUPA Subtest-5    | 15.40    | 15.40 | 15.40  | 16.00                     | 14.90    | 14.90  | 14.90  | 15.50                     | 22.90   | 23.00 | 23.00 | 24.50                     |

|                 |                    | Ant 2    |       |        |                           | Ant 2    |       |       |                           | Ant 0   |       |       |                           |  |
|-----------------|--------------------|----------|-------|--------|---------------------------|----------|-------|-------|---------------------------|---------|-------|-------|---------------------------|--|
| 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   |                           |          |       |       |                           |         |       |       |                           |  |
| Rx Channel      |                    | 9662     | 9800  | 9938   |                           |          |       |       |                           |         |       |       |                           |  |
| Frequency (MHz) |                    | 1852.4   | 1880  | 1907.6 |                           |          |       |       |                           |         |       |       |                           |  |
|                 |                    |          |       |        |                           |          |       |       |                           |         |       |       |                           |  |
| 3GPP Rel 99     | AMR 12.2Kbps       | 12.82    | 12.85 | 12.84  | 14.00                     | 12.35    | 12.39 | 12.36 | 13.50                     | 22.43   | 22.48 | 22.45 | 23.50                     |  |
| 3GPP Rel 99     | RMC 12.2Kbps       | 12.84    | 12.88 | 12.86  | 14.00                     | 12.36    | 12.41 | 12.37 | 13.50                     | 22.45   | 22.49 | 22.46 | 23.50                     |  |
| 3GPP Rel 6      | HSDPA Subtest-1    | 12.37    | 12.39 | 12.39  | 13.00                     | 11.89    | 11.96 | 11.89 | 12.50                     | 21.47   | 21.48 | 21.46 | 22.50                     |  |
| 3GPP Rel 6      | HSDPA Subtest-2    | 12.36    | 12.37 | 12.38  | 13.00                     | 11.88    | 11.95 | 11.87 | 12.50                     | 21.46   | 21.48 | 21.44 | 22.50                     |  |
| 3GPP Rel 6      | HSDPA Subtest-3    | 11.35    | 11.39 | 11.38  | 12.50                     | 10.87    | 10.91 | 10.86 | 12.00                     | 20.96   | 20.99 | 20.96 | 22.00                     |  |
| 3GPP Rel 6      | HSDPA Subtest-4    | 11.34    | 11.37 | 11.36  | 12.50                     | 10.86    | 10.90 | 10.85 | 12.00                     | 20.97   | 20.97 | 20.95 | 22.00                     |  |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 12.28    | 12.28 | 12.30  | 13.00                     | 11.79    | 11.85 | 11.78 | 12.50                     | 21.38   | 21.39 | 21.35 | 22.50                     |  |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 12.26    | 12.26 | 12.29  | 13.00                     | 11.77    | 11.84 | 11.77 | 12.50                     | 21.35   | 21.37 | 21.32 | 22.50                     |  |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 11.25    | 11.28 | 11.27  | 12.50                     | 10.75    | 10.81 | 10.77 | 12.00                     | 20.88   | 20.88 | 20.87 | 22.00                     |  |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 11.22    | 11.28 | 11.24  | 12.50                     | 10.72    | 10.79 | 10.74 | 12.00                     | 20.87   | 20.86 | 20.84 | 22.00                     |  |
| 3GPP Rel 6      | HSUPA Subtest-1    | 11.05    | 11.12 | 11.04  | 12.50                     | 10.35    | 10.42 | 10.37 | 11.50                     | 21.50   | 21.47 | 21.43 | 22.50                     |  |
| 3GPP Rel 6      | HSUPA Subtest-2    | 9.87     | 9.90  | 9.90   | 11.00                     | 9.36     | 9.43  | 9.37  | 10.50                     | 17.50   | 17.48 | 17.44 | 18.50                     |  |
| 3GPP Rel 6      | HSUPA Subtest-3    | 10.42    | 10.43 | 10.42  | 11.50                     | 9.85     | 9.89  | 9.87  | 11.00                     | 17.95   | 17.99 | 17.97 | 19.00                     |  |
| 3GPP Rel 6      | HSUPA Subtest-4    | 9.86     | 9.90  | 9.91   | 11.00                     | 9.41     | 9.45  | 9.36  | 10.50                     | 17.51   | 17.50 | 17.49 | 18.50                     |  |
| 3GPP Rel 6      | HSUPA Subtest-5    | 12.40    | 12.40 | 12.40  | 13.00                     | 11.90    | 11.94 | 11.92 | 12.50                     | 21.50   | 21.48 | 21.47 | 22.50                     |  |

|                 |                    | Ant 2    |       |        | Tune-up<br>Limit<br>(dBm) | Ant 2    |        |        | Tune-up<br>Limit<br>(dBm) | Ant 0   |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| Band            |                    | WCDMA II |       |        |                           | WCDMA IV |        |        |                           | WCDMA V |       |       |                           |
| 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       | 12.82    | 12.85 | 12.84  | 14.50                     | 12.35    | 12.39  | 12.36  | 14.00                     | 22.43   | 22.48 | 22.45 | 24.00                     |
| 3GPP Rel 99     | RMC 12.2Kbps       | 12.84    | 12.88 | 12.86  | 14.50                     | 12.36    | 12.41  | 12.37  | 14.00                     | 22.45   | 22.49 | 22.46 | 24.00                     |
| 3GPP Rel 6      | HSDPA Subtest-1    | 12.37    | 12.39 | 12.39  | 13.50                     | 11.89    | 11.96  | 11.89  | 13.00                     | 21.47   | 21.48 | 21.46 | 23.00                     |
| 3GPP Rel 6      | HSDPA Subtest-2    | 12.36    | 12.37 | 12.38  | 13.50                     | 11.88    | 11.95  | 11.87  | 13.00                     | 21.46   | 21.48 | 21.44 | 23.00                     |
| 3GPP Rel 6      | HSDPA Subtest-3    | 11.35    | 11.39 | 11.38  | 13.00                     | 10.87    | 10.91  | 10.86  | 12.50                     | 20.96   | 20.99 | 20.96 | 22.50                     |
| 3GPP Rel 6      | HSDPA Subtest-4    | 11.34    | 11.37 | 11.36  | 13.00                     | 10.86    | 10.90  | 10.85  | 12.50                     | 20.97   | 20.97 | 20.95 | 22.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 12.28    | 12.28 | 12.30  | 13.50                     | 11.79    | 11.85  | 11.78  | 13.00                     | 21.38   | 21.39 | 21.35 | 23.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 12.26    | 12.26 | 12.29  | 13.50                     | 11.77    | 11.84  | 11.77  | 13.00                     | 21.35   | 21.37 | 21.32 | 23.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 11.25    | 11.28 | 11.27  | 13.00                     | 10.75    | 10.81  | 10.77  | 12.50                     | 20.88   | 20.88 | 20.87 | 22.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 11.22    | 11.28 | 11.24  | 13.00                     | 10.72    | 10.79  | 10.74  | 12.50                     | 20.87   | 20.86 | 20.84 | 22.50                     |
| 3GPP Rel 6      | HSUPA Subtest-1    | 11.05    | 11.12 | 11.04  | 13.00                     | 10.35    | 10.42  | 10.37  | 12.00                     | 21.50   | 21.47 | 21.43 | 23.00                     |
| 3GPP Rel 6      | HSUPA Subtest-2    | 9.87     | 9.90  | 9.90   | 11.50                     | 9.36     | 9.43   | 9.37   | 11.00                     | 17.50   | 17.48 | 17.44 | 19.00                     |
| 3GPP Rel 6      | HSUPA Subtest-3    | 10.42    | 10.43 | 10.42  | 12.00                     | 9.85     | 9.89   | 9.87   | 11.50                     | 17.95   | 17.99 | 17.97 | 19.50                     |
| 3GPP Rel 6      | HSUPA Subtest-4    | 9.86     | 9.90  | 9.91   | 11.50                     | 9.41     | 9.45   | 9.36   | 11.00                     | 17.51   | 17.50 | 17.49 | 19.00                     |
| 3GPP Rel 6      | HSUPA Subtest-5    | 12.40    | 12.40 | 12.40  | 13.50                     | 11.90    | 11.94  | 11.92  | 13.00                     | 21.50   | 21.48 | 21.47 | 23.00                     |

|                 |                    | Ant 2    |       |        | Ant 2                     |          |        |        | Ant 0                     |         |       |       |                           |
|-----------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| 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  | 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       | 18.30    | 18.29 | 18.35  | 19.50                     | 17.82    | 17.83  | 17.82  | 19.00                     | 24.01   | 24.00 | 23.98 | 25.00                     |
| 3GPP Rel 99     | RMC 12.2Kbps       | 18.33    | 18.31 | 18.36  | 19.50                     | 17.83    | 17.85  | 17.83  | 19.00                     | 24.03   | 24.02 | 23.98 | 25.00                     |
| 3GPP Rel 6      | HSDPA Subtest-1    | 17.82    | 17.85 | 17.87  | 18.50                     | 17.33    | 17.40  | 17.33  | 18.00                     | 23.00   | 23.04 | 23.01 | 24.50                     |
| 3GPP Rel 6      | HSDPA Subtest-2    | 17.81    | 17.85 | 17.88  | 18.50                     | 17.34    | 17.37  | 17.36  | 18.00                     | 23.00   | 23.04 | 23.01 | 24.50                     |
| 3GPP Rel 6      | HSDPA Subtest-3    | 16.86    | 16.83 | 16.87  | 18.00                     | 16.35    | 16.38  | 16.34  | 17.50                     | 22.51   | 22.53 | 22.49 | 24.00                     |
| 3GPP Rel 6      | HSDPA Subtest-4    | 16.85    | 16.84 | 16.82  | 18.00                     | 16.30    | 16.37  | 16.37  | 17.50                     | 22.50   | 22.52 | 22.51 | 24.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 17.89    | 17.86 | 17.95  | 18.50                     | 17.31    | 17.45  | 17.30  | 18.00                     | 22.96   | 22.97 | 22.95 | 23.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 17.89    | 17.86 | 17.93  | 18.50                     | 17.26    | 17.45  | 17.33  | 18.00                     | 22.96   | 23.01 | 22.93 | 23.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 16.84    | 16.90 | 16.82  | 18.00                     | 16.41    | 16.29  | 16.33  | 17.50                     | 22.48   | 22.51 | 22.47 | 23.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 16.88    | 16.89 | 16.74  | 18.00                     | 16.34    | 16.32  | 16.45  | 17.50                     | 22.42   | 22.46 | 22.47 | 23.00                     |
| 3GPP Rel 6      | HSUPA Subtest-1    | 17.68    | 17.57 | 17.55  | 18.50                     | 17.33    | 17.40  | 17.39  | 18.00                     | 22.98   | 23.01 | 22.99 | 24.50                     |
| 3GPP Rel 6      | HSUPA Subtest-2    | 15.36    | 15.37 | 15.41  | 16.50                     | 14.83    | 14.83  | 14.88  | 16.00                     | 18.97   | 19.00 | 18.98 | 22.50                     |
| 3GPP Rel 6      | HSUPA Subtest-3    | 16.37    | 16.35 | 16.36  | 17.50                     | 15.84    | 15.89  | 15.87  | 17.00                     | 19.48   | 19.50 | 19.44 | 23.50                     |
| 3GPP Rel 6      | HSUPA Subtest-4    | 15.36    | 15.34 | 15.45  | 16.50                     | 14.88    | 14.85  | 14.86  | 16.00                     | 18.93   | 18.99 | 18.95 | 22.50                     |
| 3GPP Rel 6      | HSUPA Subtest-5    | 17.90    | 17.90 | 17.90  | 18.50                     | 17.40    | 17.40  | 17.40  | 18.00                     | 22.90   | 23.00 | 23.00 | 24.50                     |

|                 |                    | Ant 2    |       |        | Ant 2                     |          |        |        | Ant 0                     |         |       |       |                           |
|-----------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| 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  | 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       | 16.30    | 16.34 | 16.28  | 17.50                     | 15.81    | 15.87  | 15.80  | 17.00                     | 21.95   | 21.95 | 21.90 | 23.00                     |
| 3GPP Rel 99     | RMC 12.2Kbps       | 16.32    | 16.35 | 16.36  | 17.50                     | 15.86    | 15.91  | 15.83  | 17.00                     | 21.97   | 21.96 | 21.93 | 23.00                     |
| 3GPP Rel 6      | HSDPA Subtest-1    | 15.87    | 15.84 | 15.89  | 16.50                     | 15.39    | 15.36  | 15.33  | 16.00                     | 20.99   | 20.95 | 20.94 | 22.00                     |
| 3GPP Rel 6      | HSDPA Subtest-2    | 15.86    | 15.82 | 15.87  | 16.50                     | 15.33    | 15.38  | 15.34  | 16.00                     | 20.93   | 20.98 | 20.94 | 22.00                     |
| 3GPP Rel 6      | HSDPA Subtest-3    | 14.83    | 14.91 | 14.81  | 16.00                     | 14.38    | 14.41  | 14.38  | 15.50                     | 20.44   | 20.48 | 20.44 | 21.50                     |
| 3GPP Rel 6      | HSDPA Subtest-4    | 14.85    | 14.86 | 14.84  | 16.00                     | 14.37    | 14.40  | 14.38  | 15.50                     | 20.47   | 20.50 | 20.45 | 21.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 15.89    | 15.83 | 15.94  | 16.50                     | 15.38    | 15.38  | 15.25  | 16.00                     | 21.02   | 20.88 | 20.87 | 22.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 15.90    | 15.73 | 15.80  | 16.50                     | 15.28    | 15.33  | 15.44  | 16.00                     | 20.99   | 21.01 | 20.92 | 22.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 14.76    | 14.94 | 14.82  | 16.00                     | 14.39    | 14.46  | 14.34  | 15.50                     | 20.41   | 20.54 | 20.43 | 21.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 14.88    | 14.85 | 14.76  | 16.00                     | 14.29    | 14.50  | 14.36  | 15.50                     | 20.42   | 20.58 | 20.40 | 21.50                     |
| 3GPP Rel 6      | HSUPA Subtest-1    | 14.34    | 14.35 | 14.29  | 15.50                     | 13.89    | 13.85  | 13.85  | 15.00                     | 20.98   | 21.00 | 20.95 | 22.00                     |
| 3GPP Rel 6      | HSUPA Subtest-2    | 13.40    | 13.33 | 13.37  | 14.50                     | 12.90    | 12.86  | 12.88  | 14.00                     | 16.93   | 16.97 | 16.99 | 18.00                     |
| 3GPP Rel 6      | HSUPA Subtest-3    | 14.86    | 13.87 | 13.86  | 15.00                     | 13.38    | 13.38  | 13.39  | 14.50                     | 17.45   | 17.48 | 17.44 | 18.50                     |
| 3GPP Rel 6      | HSUPA Subtest-4    | 13.39    | 13.42 | 13.39  | 14.50                     | 12.87    | 12.91  | 12.91  | 14.00                     | 16.94   | 16.98 | 16.96 | 18.00                     |
| 3GPP Rel 6      | HSUPA Subtest-5    | 15.90    | 15.80 | 15.90  | 16.50                     | 15.30    | 15.40  | 15.40  | 16.00                     | 21.00   | 21.00 | 20.90 | 22.00                     |



|                 |                    | Ant 2    |       |        |                           | Ant 2    |        |        |                           | Ant 0   |       |       |                           |
|-----------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| 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  | 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       | 16.30    | 16.34 | 16.28  | 18.00                     | 15.81    | 15.87  | 15.80  | 17.50                     | 21.95   | 21.97 | 21.90 | 23.50                     |
| 3GPP Rel 99     | RMC 12.2Kbps       | 16.32    | 16.36 | 16.32  | 18.00                     | 15.86    | 15.91  | 15.83  | 17.50                     | 21.97   | 21.98 | 21.93 | 23.50                     |
| 3GPP Rel 6      | HSDPA Subtest-1    | 15.87    | 15.84 | 15.89  | 17.00                     | 15.39    | 15.36  | 15.33  | 16.50                     | 20.99   | 20.95 | 20.94 | 22.50                     |
| 3GPP Rel 6      | HSDPA Subtest-2    | 15.86    | 15.82 | 15.87  | 17.00                     | 15.33    | 15.38  | 15.34  | 16.50                     | 20.93   | 20.98 | 20.94 | 22.50                     |
| 3GPP Rel 6      | HSDPA Subtest-3    | 14.83    | 14.91 | 14.81  | 16.50                     | 14.38    | 14.41  | 14.38  | 16.00                     | 20.44   | 20.48 | 20.44 | 22.00                     |
| 3GPP Rel 6      | HSDPA Subtest-4    | 14.85    | 14.86 | 14.84  | 16.50                     | 14.37    | 14.40  | 14.38  | 16.00                     | 20.47   | 20.50 | 20.45 | 22.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 15.89    | 15.83 | 15.94  | 17.00                     | 15.38    | 15.38  | 15.25  | 16.50                     | 21.02   | 20.88 | 20.87 | 22.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 15.90    | 15.73 | 15.80  | 17.00                     | 15.28    | 15.33  | 15.44  | 16.50                     | 20.99   | 21.01 | 20.92 | 22.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 14.76    | 14.94 | 14.82  | 16.50                     | 14.39    | 14.46  | 14.34  | 16.00                     | 20.41   | 20.54 | 20.43 | 22.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 14.88    | 14.85 | 14.76  | 16.50                     | 14.29    | 14.50  | 14.36  | 16.00                     | 20.42   | 20.58 | 20.40 | 22.00                     |
| 3GPP Rel 6      | HSUPA Subtest-1    | 14.34    | 14.35 | 14.29  | 16.00                     | 13.89    | 13.85  | 13.85  | 15.50                     | 20.98   | 21.00 | 20.95 | 22.50                     |
| 3GPP Rel 6      | HSUPA Subtest-2    | 13.40    | 13.33 | 13.37  | 15.00                     | 12.90    | 12.86  | 12.88  | 14.50                     | 16.93   | 16.97 | 16.99 | 18.50                     |
| 3GPP Rel 6      | HSUPA Subtest-3    | 14.86    | 13.87 | 13.86  | 15.50                     | 13.38    | 13.38  | 13.39  | 15.00                     | 17.45   | 17.48 | 17.44 | 19.00                     |
| 3GPP Rel 6      | HSUPA Subtest-4    | 13.39    | 13.42 | 13.39  | 15.00                     | 12.87    | 12.91  | 12.91  | 14.50                     | 16.94   | 16.98 | 16.96 | 18.50                     |
| 3GPP Rel 6      | HSUPA Subtest-5    | 15.90    | 15.80 | 15.90  | 17.00                     | 15.30    | 15.40  | 15.40  | 16.50                     | 21.00   | 21.00 | 20.90 | 22.50                     |



## <LTE Conducted Power>

### General Note:

1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the
6. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is > not ½ dB higher than the
7. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported
8. For LTE B4 / B5 / B12 / B17 / B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth
9. According to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
  - a. the maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band to qualify for the SAR test
  - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to 2017 TCB workshop, for 64 QAM and 16 QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 64QAM and 16QAM signal modulation are correct.



64QAM



16QAM



| Band 2_Ant 3    |            |         |           |                           |                              |                            |                     |
|-----------------|------------|---------|-----------|---------------------------|------------------------------|----------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq. 18700 | Power Middle Ch. Freq. 18800 | Power High Ch. Freq. 19100 | Tune-up limit (dBm) |
| Channel         |            |         |           | 18600                     | 18800                        | 19000                      |                     |
| Frequency (MHz) |            |         |           | 18600                     | 18800                        | 19000                      |                     |
| 20              | QPSK       | 1       | 0         | 23.15                     | 23.10                        | 23.14                      | 24                  |
| 20              | QPSK       | 1       | 49        | 23.01                     | 23.02                        | 23.06                      |                     |
| 20              | QPSK       | 1       | 99        | 22.99                     | 23.09                        | 23.04                      |                     |
| 20              | QPSK       | 50      | 0         | 22.11                     | 22.04                        | 22.07                      |                     |
| 20              | QPSK       | 50      | 24        | 22.23                     | 22.22                        | 22.17                      | 23                  |
| 20              | QPSK       | 50      | 50        | 22.15                     | 22.20                        | 22.16                      |                     |
| 20              | QPSK       | 100     | 0         | 22.14                     | 22.13                        | 22.10                      |                     |
| 20              | 16QAM      | 1       | 0         | 22.46                     | 22.41                        | 22.43                      |                     |
| 20              | 16QAM      | 1       | 49        | 22.39                     | 22.38                        | 22.47                      | 23                  |
| 20              | 16QAM      | 1       | 99        | 22.36                     | 22.42                        | 22.43                      |                     |
| 20              | 16QAM      | 50      | 0         | 21.12                     | 21.05                        | 21.09                      |                     |
| 20              | 16QAM      | 50      | 24        | 21.21                     | 21.23                        | 21.17                      | 22                  |
| 20              | 16QAM      | 50      | 50        | 21.17                     | 21.22                        | 21.23                      |                     |
| 20              | 16QAM      | 100     | 0         | 21.14                     | 21.15                        | 21.11                      |                     |
| 20              | 64QAM      | 1       | 0         | 21.36                     | 21.27                        | 21.29                      |                     |
| 20              | 64QAM      | 1       | 49        | 21.23                     | 21.26                        | 21.33                      | 22                  |
| 20              | 64QAM      | 1       | 99        | 21.25                     | 21.31                        | 21.26                      |                     |
| 20              | 64QAM      | 50      | 0         | 20.14                     | 20.08                        | 20.10                      |                     |
| 20              | 64QAM      | 50      | 24        | 20.24                     | 20.24                        | 20.20                      |                     |
| 20              | 64QAM      | 50      | 50        | 20.20                     | 20.22                        | 20.25                      | 21                  |
| 20              | 64QAM      | 100     | 0         | 20.17                     | 20.18                        | 20.13                      |                     |
| Channel         |            |         |           | 18675                     | 18900                        | 19125                      | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1857.5                    | 18800                        | 1902.5                     |                     |
| 15              | QPSK       | 1       | 0         | 22.99                     | 23.07                        | 23.05                      | 24                  |
| 15              | QPSK       | 1       | 37        | 23.03                     | 23.07                        | 23.08                      |                     |
| 15              | QPSK       | 1       | 74        | 23.01                     | 23.13                        | 23.11                      |                     |
| 15              | QPSK       | 36      | 0         | 22.18                     | 22.09                        | 22.12                      |                     |
| 15              | QPSK       | 36      | 20        | 22.22                     | 22.26                        | 22.28                      | 23                  |
| 15              | QPSK       | 36      | 39        | 22.21                     | 22.25                        | 22.24                      |                     |
| 15              | QPSK       | 75      | 0         | 22.20                     | 22.20                        | 22.14                      |                     |
| 15              | 16QAM      | 1       | 0         | 22.30                     | 22.41                        | 22.45                      |                     |
| 15              | 16QAM      | 1       | 37        | 22.40                     | 22.42                        | 22.39                      | 23                  |
| 15              | 16QAM      | 1       | 74        | 22.33                     | 22.45                        | 22.44                      |                     |
| 15              | 16QAM      | 36      | 0         | 21.19                     | 21.10                        | 21.12                      |                     |
| 15              | 16QAM      | 36      | 20        | 21.23                     | 21.24                        | 21.26                      |                     |
| 15              | 16QAM      | 36      | 39        | 21.21                     | 21.25                        | 21.25                      | 22                  |
| 15              | 16QAM      | 75      | 0         | 21.20                     | 21.21                        | 21.16                      |                     |
| 15              | 64QAM      | 1       | 0         | 21.30                     | 21.27                        | 21.30                      |                     |
| 15              | 64QAM      | 1       | 37        | 21.28                     | 21.29                        | 21.33                      |                     |
| 15              | 64QAM      | 1       | 74        | 21.23                     | 21.36                        | 21.30                      | 21                  |
| 15              | 64QAM      | 36      | 0         | 20.22                     | 20.13                        | 20.15                      |                     |
| 15              | 64QAM      | 36      | 20        | 20.26                     | 20.26                        | 20.29                      |                     |
| 15              | 64QAM      | 36      | 39        | 20.24                     | 20.28                        | 20.25                      |                     |
| 15              | 64QAM      | 75      | 0         | 20.22                     | 20.22                        | 20.15                      |                     |
| Channel         |            |         |           | 18650                     | 18900                        | 19150                      | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1855                      | 18800                        | 1905                       |                     |
| 10              | QPSK       | 1       | 0         | 22.67                     | 22.58                        | 22.58                      | 24                  |
| 10              | QPSK       | 1       | 25        | 22.80                     | 22.92                        | 22.94                      |                     |
| 10              | QPSK       | 1       | 49        | 22.66                     | 22.74                        | 22.89                      |                     |
| 10              | QPSK       | 25      | 0         | 22.01                     | 21.91                        | 21.94                      |                     |
| 10              | QPSK       | 25      | 12        | 22.06                     | 22.08                        | 22.02                      | 23                  |
| 10              | QPSK       | 25      | 25        | 21.96                     | 21.98                        | 21.98                      |                     |
| 10              | QPSK       | 50      | 0         | 21.97                     | 21.97                        | 21.93                      |                     |
| 10              | 16QAM      | 1       | 0         | 22.03                     | 21.99                        | 22.35                      |                     |
| 10              | 16QAM      | 1       | 25        | 22.31                     | 22.32                        | 22.34                      | 23                  |
| 10              | 16QAM      | 1       | 49        | 22.02                     | 22.07                        | 22.32                      |                     |
| 10              | 16QAM      | 25      | 0         | 20.99                     | 20.91                        | 20.94                      |                     |
| 10              | 16QAM      | 25      | 12        | 21.09                     | 21.11                        | 21.02                      |                     |
| 10              | 16QAM      | 25      | 25        | 20.96                     | 20.97                        | 20.99                      | 22                  |
| 10              | 16QAM      | 50      | 0         | 20.98                     | 21.00                        | 20.94                      |                     |
| 10              | 64QAM      | 1       | 0         | 20.97                     | 20.92                        | 21.24                      |                     |
| 10              | 64QAM      | 1       | 25        | 21.24                     | 21.23                        | 21.28                      |                     |
| 10              | 64QAM      | 1       | 49        | 20.93                     | 20.98                        | 21.25                      | 21                  |
| 10              | 64QAM      | 25      | 0         | 19.99                     | 19.95                        | 19.96                      |                     |
| 10              | 64QAM      | 25      | 12        | 20.10                     | 20.14                        | 20.07                      |                     |
| 10              | 64QAM      | 25      | 25        | 19.95                     | 20.02                        | 20.01                      |                     |
| 10              | 64QAM      | 50      | 0         | 20.00                     | 20.02                        | 19.97                      |                     |
| Channel         |            |         |           | 18625                     | 18900                        | 19175                      | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1852.5                    | 18800                        | 1907.5                     |                     |
| 5               | QPSK       | 1       | 0         | 22.94                     | 22.88                        | 22.91                      | 24                  |
| 5               | QPSK       | 1       | 12        | 23.00                     | 23.01                        | 23.01                      |                     |
| 5               | QPSK       | 1       | 24        | 22.87                     | 22.90                        | 22.89                      |                     |
| 5               | QPSK       | 12      | 0         | 22.09                     | 22.03                        | 22.05                      |                     |
| 5               | QPSK       | 12      | 7         | 22.13                     | 22.09                        | 22.05                      | 23                  |
| 5               | QPSK       | 12      | 13        | 22.01                     | 22.04                        | 22.04                      |                     |
| 5               | QPSK       | 25      | 0         | 22.05                     | 22.05                        | 22.00                      |                     |
| 5               | 16QAM      | 1       | 0         | 22.27                     | 22.19                        | 22.21                      |                     |
| 5               | 16QAM      | 1       | 12        | 22.27                     | 22.27                        | 22.31                      | 23                  |
| 5               | 16QAM      | 1       | 24        | 22.19                     | 22.21                        | 22.18                      |                     |
| 5               | 16QAM      | 12      | 0         | 21.11                     | 21.04                        | 21.04                      |                     |
| 5               | 16QAM      | 12      | 7         | 21.11                     | 21.13                        | 21.04                      |                     |
| 5               | 16QAM      | 12      | 13        | 21.04                     | 21.04                        | 21.05                      | 22                  |
| 5               | 16QAM      | 25      | 0         | 21.07                     | 21.09                        | 21.02                      |                     |
| 5               | 64QAM      | 1       | 0         | 21.22                     | 21.17                        | 21.13                      |                     |
| 5               | 64QAM      | 1       | 12        | 21.16                     | 21.18                        | 21.19                      |                     |
| 5               | 64QAM      | 1       | 24        | 21.06                     | 21.10                        | 21.07                      | 21                  |
| 5               | 64QAM      | 12      | 0         | 20.19                     | 20.10                        | 20.11                      |                     |
| 5               | 64QAM      | 12      | 7         | 20.19                     | 20.18                        | 20.11                      |                     |
| 5               | 64QAM      | 12      | 13        | 20.08                     | 20.09                        | 20.12                      |                     |
| 5               | 64QAM      | 25      | 0         | 20.08                     | 20.08                        | 20.03                      |                     |
| Channel         |            |         |           | 18615                     | 18900                        | 19185                      | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1851.5                    | 18800                        | 1906.5                     |                     |
| 3               | QPSK       | 1       | 0         | 23.10                     | 22.99                        | 23.09                      | 24                  |
| 3               | QPSK       | 1       | 8         | 23.08                     | 23.08                        | 23.11                      |                     |
| 3               | QPSK       | 1       | 14        | 22.94                     | 22.96                        | 22.96                      |                     |
| 3               | QPSK       | 8       | 0         | 22.16                     | 22.12                        | 22.17                      |                     |
| 3               | QPSK       | 8       | 4         | 22.14                     | 22.14                        | 22.14                      | 23                  |
| 3               | QPSK       | 8       | 7         | 22.10                     | 22.09                        | 22.08                      |                     |
| 3               | QPSK       | 15      | 0         | 22.13                     | 22.11                        | 22.15                      |                     |
| 3               | 16QAM      | 1       | 0         | 22.37                     | 22.31                        | 22.38                      |                     |
| 3               | 16QAM      | 1       | 8         | 22.39                     | 22.44                        | 22.43                      | 23                  |
| 3               | 16QAM      | 1       | 14        | 22.28                     | 22.33                        | 22.29                      |                     |
| 3               | 16QAM      | 8       | 0         | 21.20                     | 21.18                        | 21.19                      |                     |
| 3               | 16QAM      | 8       | 4         | 21.22                     | 21.19                        | 21.18                      |                     |
| 3               | 16QAM      | 8       | 7         | 21.12                     | 21.14                        | 21.16                      | 22                  |
| 3               | 16QAM      | 15      | 0         | 21.17                     | 21.17                        | 21.14                      |                     |
| 3               | 64QAM      | 1       | 0         | 21.31                     | 21.24                        | 21.32                      |                     |
| 3               | 64QAM      | 1       | 8         | 21.27                     | 21.31                        | 21.32                      |                     |
| 3               | 64QAM      | 1       | 14        | 21.18                     | 21.21                        | 21.18                      | 21                  |
| 3               | 64QAM      | 8       | 0         | 20.24                     | 20.19                        | 20.21                      |                     |
| 3               | 64QAM      | 8       | 4         | 20.22                     | 20.21                        | 20.20                      |                     |
| 3               | 64QAM      | 8       | 7         | 20.19                     | 20.17                        | 20.16                      |                     |
| 3               | 64QAM      | 15      | 0         | 20.16                     | 20.17                        | 20.15                      |                     |
| Channel         |            |         |           | 18607                     | 18900                        | 19193                      | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1850.7                    | 18800                        | 1906.3                     |                     |
| 1.4             | QPSK       | 1       | 0         | 22.99                     | 22.99                        | 22.92                      | 24                  |
| 1.4             | QPSK       | 1       | 3         | 23.02                     | 23.03                        | 23.00                      |                     |
| 1.4             | QPSK       | 1       | 5         | 22.89                     | 22.95                        | 22.92                      |                     |
| 1.4             | QPSK       | 3       | 0         | 22.97                     | 22.99                        | 22.96                      |                     |
| 1.4             | QPSK       | 3       | 1         | 23.04                     | 23.01                        | 22.97                      | 23                  |
| 1.4             | QPSK       | 3       | 3         | 22.95                     | 22.95                        | 22.92                      |                     |
| 1.4             | QPSK       | 6       | 0         | 22.07                     | 22.07                        | 22.04                      |                     |
| 1.4             | 16QAM      | 1       | 0         | 22.32                     | 22.31                        | 22.28                      |                     |
| 1.4             | 16QAM      | 1       | 3         | 22.37                     | 22.33                        | 22.34                      | 23                  |
| 1.4             | 16QAM      | 1       | 5         | 22.26                     | 22.23                        | 22.25                      |                     |
| 1.4             | 16QAM      | 3       | 0         | 22.08                     | 22.08                        | 22.06                      |                     |
| 1.4             | 16QAM      | 3       | 1         | 22.12                     | 22.11                        | 22.11                      |                     |
| 1.4             | 16QAM      | 3       | 3         | 22.03                     | 22.02                        | 22.02                      | 22                  |
| 1.4             | 16QAM      | 6       | 0         | 21.15                     | 21.16                        | 21.13                      |                     |
| 1.4             | 64QAM      | 1       | 0         | 21.24                     | 21.20                        | 21.24                      |                     |
| 1.4             | 64QAM      | 1       | 3         | 21.23                     | 21.24                        | 21.22                      |                     |
| 1.4             | 64QAM      | 1       | 5         | 21.16                     | 21.13                        | 21.15                      | 22                  |
| 1.4             | 64QAM      | 3       | 0         | 21.21                     | 21.18                        | 21.17                      |                     |
| 1.4             | 64QAM      | 3       | 1         | 21.23                     | 21.25                        | 21.22                      |                     |
| 1.4             | 64QAM      | 3       | 3         | 21.17                     | 21.16                        | 21.15                      |                     |
| 1.4             | 64QAM      | 6       | 0         | 20.10                     | 20.08                        | 20.06                      | 21                  |





| Band 5_Ant 1    |            |         |           |                                   |                                      |                                    |                          |
|-----------------|------------|---------|-----------|-----------------------------------|--------------------------------------|------------------------------------|--------------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq.<br>20450 | Power Middle<br>Ch. / Freq.<br>20525 | Power High<br>Ch. / Freq.<br>20600 | Tune-up<br>limit<br>(dB) |
| Channel         |            |         |           | 829                               | 836.5                                | 844                                |                          |
| Frequency (MHz) |            |         |           | 829                               | 836.5                                | 844                                |                          |
| 10              | QPSK       | 1       | 0         | 24.06                             | 24.06                                | 24.09                              | 25                       |
| 10              | QPSK       | 1       | 25        | 24.05                             | 24.03                                | 24.04                              |                          |
| 10              | QPSK       | 1       | 49        | 24.10                             | 24.13                                | 24.04                              |                          |
| 10              | QPSK       | 25      | 0         | 23.14                             | 23.15                                | 23.14                              |                          |
| 10              | QPSK       | 25      | 12        | 23.22                             | 23.23                                | 23.20                              |                          |
| 10              | QPSK       | 25      | 25        | 23.21                             | 23.20                                | 23.19                              | 24                       |
| 10              | QPSK       | 50      | 0         | 23.15                             | 23.16                                | 23.07                              |                          |
| 10              | 16QAM      | 1       | 0         | 23.45                             | 23.47                                | 23.46                              |                          |
| 10              | 16QAM      | 1       | 25        | 23.41                             | 23.41                                | 23.46                              |                          |
| 10              | 16QAM      | 1       | 49        | 23.43                             | 23.45                                | 23.42                              |                          |
| 10              | 16QAM      | 25      | 0         | 22.17                             | 22.14                                | 22.14                              | 23                       |
| 10              | 16QAM      | 25      | 12        | 22.27                             | 22.25                                | 22.17                              |                          |
| 10              | 16QAM      | 25      | 25        | 22.19                             | 22.21                                | 22.18                              |                          |
| 10              | 16QAM      | 50      | 0         | 22.15                             | 22.17                                | 22.06                              |                          |
| 10              | 64QAM      | 1       | 0         | 22.27                             | 22.31                                | 22.28                              |                          |
| 10              | 64QAM      | 1       | 25        | 22.36                             | 22.37                                | 22.38                              | 23                       |
| 10              | 64QAM      | 1       | 49        | 22.35                             | 22.36                                | 22.34                              |                          |
| 10              | 64QAM      | 25      | 0         | 21.17                             | 21.17                                | 21.20                              |                          |
| 10              | 64QAM      | 25      | 12        | 21.29                             | 21.28                                | 21.21                              |                          |
| 10              | 64QAM      | 25      | 25        | 21.25                             | 21.24                                | 21.23                              |                          |
| 10              | 64QAM      | 50      | 0         | 21.19                             | 21.20                                | 21.10                              | 22                       |
| Channel         |            |         |           | 20425                             | 20525                                | 20625                              |                          |
| Frequency (MHz) |            |         |           | 826.5                             | 836.5                                | 846.5                              | Tune-up<br>limit<br>(dB) |
| 5               | QPSK       | 1       | 0         | 23.92                             | 23.98                                | 23.95                              | 25                       |
| 5               | QPSK       | 1       | 12        | 24.07                             | 24.12                                | 24.10                              |                          |
| 5               | QPSK       | 1       | 24        | 24.04                             | 24.06                                | 24.03                              |                          |
| 5               | QPSK       | 12      | 0         | 23.10                             | 23.12                                | 23.11                              |                          |
| 5               | QPSK       | 12      | 7         | 23.21                             | 23.22                                | 23.24                              |                          |
| 5               | QPSK       | 12      | 13        | 23.19                             | 23.20                                | 23.16                              | 24                       |
| 5               | QPSK       | 25      | 0         | 23.19                             | 23.16                                | 23.17                              |                          |
| 5               | 16QAM      | 1       | 0         | 23.26                             | 23.32                                | 23.32                              |                          |
| 5               | 16QAM      | 1       | 12        | 23.33                             | 23.39                                | 23.39                              |                          |
| 5               | 16QAM      | 1       | 24        | 23.39                             | 23.43                                | 23.31                              |                          |
| 5               | 16QAM      | 12      | 0         | 22.12                             | 22.17                                | 22.13                              | 23                       |
| 5               | 16QAM      | 12      | 7         | 22.23                             | 22.23                                | 22.22                              |                          |
| 5               | 16QAM      | 12      | 13        | 22.18                             | 22.22                                | 22.18                              |                          |
| 5               | 16QAM      | 25      | 0         | 22.16                             | 22.22                                | 22.19                              |                          |
| 5               | 64QAM      | 1       | 0         | 22.19                             | 22.20                                | 22.19                              |                          |
| 5               | 64QAM      | 1       | 12        | 22.28                             | 22.30                                | 22.31                              | 23                       |
| 5               | 64QAM      | 1       | 24        | 22.26                             | 22.29                                | 22.23                              |                          |
| 5               | 64QAM      | 12      | 0         | 21.20                             | 21.20                                | 21.20                              |                          |
| 5               | 64QAM      | 12      | 7         | 21.29                             | 21.31                                | 21.26                              |                          |
| 5               | 64QAM      | 12      | 13        | 21.25                             | 21.27                                | 21.22                              |                          |
| 5               | 64QAM      | 25      | 0         | 21.22                             | 21.20                                | 21.20                              | 22                       |
| Channel         |            |         |           | 20415                             | 20525                                | 20635                              |                          |
| Frequency (MHz) |            |         |           | 825.5                             | 836.5                                | 847.5                              | Tune-up<br>limit<br>(dB) |
| 3               | QPSK       | 1       | 0         | 23.97                             | 24.02                                | 23.99                              | 25                       |
| 3               | QPSK       | 1       | 8         | 24.11                             | 24.12                                | 24.10                              |                          |
| 3               | QPSK       | 1       | 14        | 24.08                             | 24.07                                | 24.04                              |                          |
| 3               | QPSK       | 8       | 0         | 23.12                             | 23.12                                | 23.08                              |                          |
| 3               | QPSK       | 8       | 4         | 23.22                             | 23.20                                | 23.19                              |                          |
| 3               | QPSK       | 8       | 7         | 23.18                             | 23.19                                | 23.15                              | 24                       |
| 3               | QPSK       | 15      | 0         | 23.17                             | 23.18                                | 23.10                              |                          |
| 3               | 16QAM      | 1       | 0         | 23.27                             | 23.34                                | 23.35                              |                          |
| 3               | 16QAM      | 1       | 8         | 23.39                             | 23.50                                | 23.46                              |                          |
| 3               | 16QAM      | 1       | 14        | 23.40                             | 23.44                                | 23.35                              |                          |
| 3               | 16QAM      | 8       | 0         | 22.17                             | 22.20                                | 22.15                              | 23                       |
| 3               | 16QAM      | 8       | 4         | 22.27                             | 22.30                                | 22.27                              |                          |
| 3               | 16QAM      | 8       | 7         | 22.23                             | 22.25                                | 22.23                              |                          |
| 3               | 16QAM      | 15      | 0         | 22.25                             | 22.22                                | 22.14                              |                          |
| 3               | 64QAM      | 1       | 0         | 22.20                             | 22.22                                | 22.23                              |                          |
| 3               | 64QAM      | 1       | 8         | 22.41                             | 22.39                                | 22.34                              | 23                       |
| 3               | 64QAM      | 1       | 14        | 22.30                             | 22.32                                | 22.24                              |                          |
| 3               | 64QAM      | 8       | 0         | 21.18                             | 21.21                                | 21.17                              |                          |
| 3               | 64QAM      | 8       | 4         | 21.28                             | 21.28                                | 21.26                              |                          |
| 3               | 64QAM      | 8       | 7         | 21.25                             | 21.26                                | 21.22                              |                          |
| 3               | 64QAM      | 15      | 0         | 21.22                             | 21.23                                | 21.14                              | 22                       |
| Channel         |            |         |           | 20407                             | 20525                                | 20643                              |                          |
| Frequency (MHz) |            |         |           | 824.7                             | 836.5                                | 848.3                              | Tune-up<br>limit<br>(dB) |
| 1.4             | QPSK       | 1       | 0         | 23.92                             | 24.03                                | 23.98                              | 25                       |
| 1.4             | QPSK       | 1       | 3         | 24.04                             | 24.08                                | 24.01                              |                          |
| 1.4             | QPSK       | 1       | 5         | 23.99                             | 23.99                                | 23.94                              |                          |
| 1.4             | QPSK       | 3       | 0         | 24.01                             | 24.03                                | 24.00                              |                          |
| 1.4             | QPSK       | 3       | 1         | 24.03                             | 24.08                                | 24.02                              |                          |
| 1.4             | QPSK       | 3       | 3         | 24.02                             | 24.03                                | 23.99                              | 24                       |
| 1.4             | QPSK       | 6       | 0         | 23.13                             | 23.14                                | 23.10                              |                          |
| 1.4             | 16QAM      | 1       | 0         | 23.23                             | 23.30                                | 23.28                              |                          |
| 1.4             | 16QAM      | 1       | 3         | 23.39                             | 23.43                                | 23.36                              |                          |
| 1.4             | 16QAM      | 1       | 5         | 23.33                             | 23.37                                | 23.30                              |                          |
| 1.4             | 16QAM      | 3       | 0         | 23.08                             | 23.12                                | 23.07                              | 24                       |
| 1.4             | 16QAM      | 3       | 1         | 23.12                             | 23.18                                | 23.12                              |                          |
| 1.4             | 16QAM      | 3       | 3         | 23.06                             | 23.13                                | 23.06                              |                          |
| 1.4             | 16QAM      | 6       | 0         | 22.25                             | 22.21                                | 22.18                              |                          |
| 1.4             | 64QAM      | 1       | 0         | 22.18                             | 22.29                                | 22.20                              |                          |
| 1.4             | 64QAM      | 1       | 3         | 22.29                             | 22.31                                | 22.28                              | 23                       |
| 1.4             | 64QAM      | 1       | 5         | 22.23                             | 22.26                                | 22.20                              |                          |
| 1.4             | 64QAM      | 3       | 0         | 22.22                             | 22.24                                | 22.20                              |                          |
| 1.4             | 64QAM      | 3       | 1         | 22.27                             | 22.31                                | 22.25                              |                          |
| 1.4             | 64QAM      | 3       | 3         | 22.22                             | 22.25                                | 22.17                              |                          |
| 1.4             | 64QAM      | 6       | 0         | 21.14                             | 21.13                                | 21.10                              | 22                       |

| Band 7_Ant 3    |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 20850                 | 21100                    | 21350                  |                     |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   |                     |
| 20              | QPSK       | 1       | 0         | 23.52                 | 23.51                    | 23.56                  | 24.5                |
| 20              | QPSK       | 1       | 49        | 23.56                 | 23.35                    | 23.62                  |                     |
| 20              | QPSK       | 1       | 99        | 23.67                 | 23.67                    | 23.71                  |                     |
| 20              | QPSK       | 50      | 0         | 22.60                 | 22.84                    | 22.67                  | 23.5                |
| 20              | QPSK       | 50      | 24        | 22.71                 | 22.83                    | 22.70                  |                     |
| 20              | QPSK       | 50      | 50        | 22.71                 | 22.75                    | 22.79                  |                     |
| 20              | QPSK       | 100     | 0         | 22.61                 | 22.62                    | 22.62                  | 23.5                |
| 20              | 16QAM      | 1       | 0         | 22.88                 | 22.85                    | 22.89                  |                     |
| 20              | 16QAM      | 1       | 49        | 22.95                 | 22.93                    | 22.90                  |                     |
| 20              | 16QAM      | 1       | 99        | 22.96                 | 23.02                    | 23.08                  | 22.5                |
| 20              | 16QAM      | 50      | 0         | 21.61                 | 21.64                    | 21.65                  |                     |
| 20              | 16QAM      | 50      | 24        | 21.71                 | 21.65                    | 21.68                  |                     |
| 20              | 16QAM      | 50      | 50        | 21.71                 | 21.77                    | 21.81                  | 22.5                |
| 20              | 16QAM      | 100     | 0         | 21.64                 | 21.58                    | 21.62                  |                     |
| 20              | 64QAM      | 1       | 0         | 21.70                 | 21.70                    | 21.76                  |                     |
| 20              | 64QAM      | 1       | 49        | 21.73                 | 21.74                    | 21.82                  | 22.5                |
| 20              | 64QAM      | 1       | 99        | 21.90                 | 21.89                    | 21.92                  |                     |
| 20              | 64QAM      | 50      | 0         | 20.62                 | 20.64                    | 20.67                  |                     |
| 20              | 64QAM      | 50      | 24        | 20.74                 | 20.70                    | 20.72                  | 21.5                |
| 20              | 64QAM      | 50      | 50        | 20.77                 | 20.77                    | 20.81                  |                     |
| 20              | 64QAM      | 100     | 0         | 20.66                 | 20.63                    | 20.66                  |                     |
| Channel         |            |         |           | 20825                 | 21100                    | 21375                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |
| 15              | QPSK       | 1       | 0         | 23.55                 | 23.56                    | 23.61                  | 24.5                |
| 15              | QPSK       | 1       | 37        | 23.56                 | 23.59                    | 23.64                  |                     |
| 15              | QPSK       | 1       | 74        | 23.68                 | 23.70                    | 23.70                  |                     |
| 15              | QPSK       | 36      | 0         | 22.62                 | 22.85                    | 22.67                  | 23.5                |
| 15              | QPSK       | 36      | 20        | 22.73                 | 22.69                    | 22.79                  |                     |
| 15              | QPSK       | 36      | 39        | 22.74                 | 22.77                    | 22.80                  |                     |
| 15              | QPSK       | 75      | 0         | 22.67                 | 22.64                    | 22.65                  | 23.5                |
| 15              | 16QAM      | 1       | 0         | 22.86                 | 22.91                    | 22.93                  |                     |
| 15              | 16QAM      | 1       | 37        | 22.94                 | 22.95                    | 22.99                  |                     |
| 15              | 16QAM      | 1       | 74        | 22.99                 | 23.02                    | 23.04                  | 22.5                |
| 15              | 16QAM      | 36      | 0         | 21.64                 | 21.63                    | 21.68                  |                     |
| 15              | 16QAM      | 36      | 20        | 21.74                 | 21.65                    | 21.81                  |                     |
| 15              | 16QAM      | 36      | 39        | 21.72                 | 21.76                    | 21.78                  | 22.5                |
| 15              | 16QAM      | 75      | 0         | 21.69                 | 21.63                    | 21.68                  |                     |
| 15              | 64QAM      | 1       | 0         | 21.75                 | 21.75                    | 21.81                  |                     |
| 15              | 64QAM      | 1       | 37        | 21.82                 | 21.81                    | 21.88                  | 22.5                |
| 15              | 64QAM      | 1       | 74        | 21.85                 | 21.90                    | 21.94                  |                     |
| 15              | 64QAM      | 36      | 0         | 20.65                 | 20.68                    | 20.73                  |                     |
| 15              | 64QAM      | 36      | 20        | 20.76                 | 20.71                    | 20.82                  | 21.5                |
| 15              | 64QAM      | 36      | 39        | 20.77                 | 20.81                    | 20.85                  |                     |
| 15              | 64QAM      | 75      | 0         | 20.68                 | 20.61                    | 20.70                  |                     |
| Channel         |            |         |           | 20800                 | 21100                    | 21400                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505                  | 2535                     | 2565                   |                     |
| 10              | QPSK       | 1       | 0         | 23.35                 | 23.40                    | 23.39                  | 24.5                |
| 10              | QPSK       | 1       | 25        | 23.36                 | 23.44                    | 23.40                  |                     |
| 10              | QPSK       | 1       | 49        | 23.43                 | 23.48                    | 23.48                  |                     |
| 10              | QPSK       | 25      | 0         | 22.38                 | 22.44                    | 22.45                  | 23.5                |
| 10              | QPSK       | 25      | 12        | 22.49                 | 22.49                    | 22.57                  |                     |
| 10              | QPSK       | 25      | 25        | 22.48                 | 22.55                    | 22.55                  |                     |
| 10              | QPSK       | 50      | 0         | 22.43                 | 22.42                    | 22.50                  | 23.5                |
| 10              | 16QAM      | 1       | 0         | 22.72                 | 22.75                    | 22.77                  |                     |
| 10              | 16QAM      | 1       | 25        | 22.74                 | 22.83                    | 22.79                  |                     |
| 10              | 16QAM      | 1       | 49        | 22.81                 | 22.85                    | 22.88                  | 22.5                |
| 10              | 16QAM      | 25      | 0         | 21.38                 | 21.41                    | 21.47                  |                     |
| 10              | 16QAM      | 25      | 12        | 21.51                 | 21.48                    | 21.56                  |                     |
| 10              | 16QAM      | 25      | 25        | 21.47                 | 21.54                    | 21.54                  | 22.5                |
| 10              | 16QAM      | 50      | 0         | 21.44                 | 21.39                    | 21.50                  |                     |
| 10              | 64QAM      | 1       | 0         | 21.55                 | 21.58                    | 21.64                  |                     |
| 10              | 64QAM      | 1       | 25        | 21.68                 | 21.71                    | 21.73                  | 22.5                |
| 10              | 64QAM      | 1       | 49        | 21.71                 | 21.77                    | 21.77                  |                     |
| 10              | 64QAM      | 25      | 0         | 20.42                 | 20.46                    | 20.47                  |                     |
| 10              | 64QAM      | 25      | 12        | 20.54                 | 20.53                    | 20.60                  | 21.5                |
| 10              | 64QAM      | 25      | 25        | 20.52                 | 20.57                    | 20.59                  |                     |
| 10              | 64QAM      | 50      | 0         | 20.45                 | 20.42                    | 20.50                  |                     |
| Channel         |            |         |           | 20775                 | 21100                    | 21425                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |
| 5               | QPSK       | 1       | 0         | 23.32                 | 23.38                    | 23.43                  | 24.5                |
| 5               | QPSK       | 1       | 12        | 23.43                 | 23.48                    | 23.50                  |                     |
| 5               | QPSK       | 1       | 24        | 23.44                 | 23.52                    | 23.50                  |                     |
| 5               | QPSK       | 12      | 0         | 22.47                 | 22.46                    | 22.50                  | 23.5                |
| 5               | QPSK       | 12      | 7         | 22.52                 | 22.48                    | 22.59                  |                     |
| 5               | QPSK       | 12      | 13        | 22.46                 | 22.53                    | 22.53                  |                     |
| 5               | QPSK       | 25      | 0         | 22.46                 | 22.49                    | 22.50                  | 23.5                |
| 5               | 16QAM      | 1       | 0         | 22.64                 | 22.70                    | 22.81                  |                     |
| 5               | 16QAM      | 1       | 12        | 22.72                 | 22.78                    | 22.80                  |                     |
| 5               | 16QAM      | 1       | 24        | 22.76                 | 22.82                    | 22.80                  | 22.5                |
| 5               | 16QAM      | 12      | 0         | 21.47                 | 21.44                    | 21.51                  |                     |
| 5               | 16QAM      | 12      | 7         | 21.51                 | 21.53                    | 21.59                  |                     |
| 5               | 16QAM      | 12      | 13        | 21.50                 | 21.55                    | 21.51                  | 22.5                |
| 5               | 16QAM      | 25      | 0         | 21.47                 | 21.43                    | 21.53                  |                     |
| 5               | 64QAM      | 1       | 0         | 21.57                 | 21.65                    | 21.70                  |                     |
| 5               | 64QAM      | 1       | 12        | 21.60                 | 21.68                    | 21.70                  | 22.5                |
| 5               | 64QAM      | 1       | 24        | 21.66                 | 21.72                    | 21.75                  |                     |
| 5               | 64QAM      | 12      | 0         | 20.54                 | 20.52                    | 20.60                  |                     |
| 5               | 64QAM      | 12      | 7         | 20.59                 | 20.55                    | 20.63                  | 21.5                |
| 5               | 64QAM      | 12      | 13        | 20.55                 | 20.55                    | 20.60                  |                     |
| 5               | 64QAM      | 25      | 0         | 20.48                 | 20.48                    | 20.54                  |                     |



| Band 12_Ant 1   |            |         |           |                             |                                |                              |                     |  |  |  |  |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------|--|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 23060 | Power Middle Ch. / Freq. 23095 | Power High Ch. / Freq. 23130 | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 704                         | 707.5                          | 711                          |                     |  |  |  |  |
| Frequency (MHz) |            |         |           |                             |                                |                              |                     |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 22.98                       | 23.05                          | 23.04                        | 24                  |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 23.05                       | 23.05                          | 23.03                        |                     |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 23.18                       | 23.20                          | 23.15                        |                     |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 22.05                       | 22.06                          | 22.08                        | 23                  |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 22.22                       | 22.23                          | 22.16                        |                     |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 22.20                       | 22.20                          | 22.22                        |                     |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 22.17                       | 22.18                          | 22.10                        | 23                  |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 22.28                       | 22.42                          | 22.44                        |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 22.41                       | 22.41                          | 22.46                        |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 22.50                       | 22.49                          | 22.48                        | 22                  |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 21.08                       | 21.08                          | 21.07                        |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 21.25                       | 21.23                          | 21.19                        |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 21.18                       | 21.22                          | 21.23                        | 21                  |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 21.18                       | 21.18                          | 21.10                        |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 21.25                       | 21.25                          | 21.29                        |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 21.35                       | 21.38                          | 21.37                        | 22                  |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 21.40                       | 21.41                          | 21.40                        |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 20.08                       | 20.09                          | 20.11                        |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 20.27                       | 20.28                          | 20.24                        | 21                  |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 20.22                       | 20.23                          | 20.22                        |                     |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 20.21                       | 20.21                          | 20.14                        |                     |  |  |  |  |
| Channel         |            |         |           | 23035                       | 23095                          | 23155                        | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 701.5                       | 707.5                          | 713.5                        |                     |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 22.98                       | 22.99                          | 23.03                        | 24                  |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 23.11                       | 23.13                          | 23.11                        |                     |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 23.08                       | 23.11                          | 23.11                        |                     |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 22.12                       | 22.14                          | 22.13                        | 23                  |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 22.22                       | 22.24                          | 22.23                        |                     |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 22.19                       | 22.20                          | 22.20                        |                     |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 22.19                       | 22.20                          | 22.20                        | 23                  |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 22.35                       | 22.31                          | 22.39                        |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 22.40                       | 22.35                          | 22.41                        |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 22.41                       | 22.46                          | 22.44                        | 22                  |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 21.15                       | 21.16                          | 21.17                        |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 21.22                       | 21.24                          | 21.23                        |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 21.20                       | 21.22                          | 21.22                        | 21                  |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 21.21                       | 21.23                          | 21.21                        |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 21.25                       | 21.28                          | 21.31                        |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 21.28                       | 21.34                          | 21.32                        | 22                  |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 21.34                       | 21.38                          | 21.34                        |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 20.21                       | 20.21                          | 20.23                        |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 20.29                       | 20.31                          | 20.30                        | 21                  |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 20.25                       | 20.27                          | 20.26                        |                     |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 20.23                       | 20.24                          | 20.23                        |                     |  |  |  |  |
| Channel         |            |         |           | 23025                       | 23095                          | 23165                        | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 700.5                       | 707.5                          | 714.5                        |                     |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 23.02                       | 23.08                          | 23.04                        | 24                  |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 23.15                       | 23.19                          | 23.14                        |                     |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 23.10                       | 23.10                          | 23.10                        |                     |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 22.13                       | 22.16                          | 22.12                        | 23                  |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 22.21                       | 22.24                          | 22.15                        |                     |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 22.18                       | 22.23                          | 22.16                        |                     |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 22.19                       | 22.19                          | 22.13                        | 23                  |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 22.38                       | 22.35                          | 22.36                        |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 22.40                       | 22.40                          | 22.46                        |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 22.43                       | 22.44                          | 22.42                        | 22                  |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 21.19                       | 21.21                          | 21.19                        |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 21.29                       | 21.29                          | 21.22                        |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 21.25                       | 21.27                          | 21.25                        | 21                  |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 21.21                       | 21.24                          | 21.15                        |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 21.28                       | 21.27                          | 21.32                        |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 8         | 21.39                       | 21.39                          | 21.37                        | 22                  |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 21.34                       | 21.37                          | 21.35                        |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 20.20                       | 20.21                          | 20.23                        |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 20.28                       | 20.29                          | 20.20                        | 21                  |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 20.25                       | 20.25                          | 20.24                        |                     |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 20.23                       | 20.23                          | 20.16                        |                     |  |  |  |  |
| Channel         |            |         |           | 23017                       | 23095                          | 23173                        | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 699.7                       | 707.5                          | 715.3                        |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 23.01                       | 22.98                          | 22.95                        | 24                  |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 23.05                       | 23.09                          | 23.07                        |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 22.99                       | 23.02                          | 22.96                        |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 23.01                       | 23.04                          | 22.97                        | 23                  |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 23.05                       | 23.08                          | 23.05                        |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 23.01                       | 23.03                          | 22.99                        |                     |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 22.10                       | 22.10                          | 22.08                        | 23                  |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 22.31                       | 22.29                          | 22.25                        |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 22.41                       | 22.40                          | 22.37                        |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 22.30                       | 22.33                          | 22.33                        | 23                  |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 22.11                       | 22.09                          | 22.05                        |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 22.16                       | 22.14                          | 22.15                        |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 22.10                       | 22.09                          | 22.11                        | 22                  |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 21.19                       | 21.20                          | 21.17                        |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 0         | 21.24                       | 21.20                          | 21.17                        |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 21.29                       | 21.34                          | 21.27                        | 22                  |  |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 21.21                       | 21.24                          | 21.25                        |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 21.22                       | 21.22                          | 21.16                        |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 21.28                       | 21.30                          | 21.28                        | 21                  |  |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 21.21                       | 21.24                          | 21.22                        |                     |  |  |  |  |
| 1.4             | 64QAM      | 6       | 0         | 20.10                       | 20.15                          | 20.11                        |                     |  |  |  |  |



| Band 13_Ant 1   |            |         |           |                        |                           |                         |                           |
|-----------------|------------|---------|-----------|------------------------|---------------------------|-------------------------|---------------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch./ Freq | Power Middle<br>Ch./ Freq | Power High<br>Ch./ Freq | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 23230                  |                           |                         |                           |
| Frequency (MHz) |            |         |           | 782                    |                           |                         |                           |
| 10              | QPSK       | 1       | 0         |                        | 23.15                     |                         | 23                        |
| 10              | QPSK       | 1       | 25        |                        | 23.09                     |                         |                           |
| 10              | QPSK       | 1       | 49        |                        | 23.08                     |                         |                           |
| 10              | QPSK       | 25      | 0         |                        | 22.13                     |                         |                           |
| 10              | QPSK       | 25      | 12        |                        | 22.15                     |                         | 23                        |
| 10              | QPSK       | 25      | 25        |                        | 22.21                     |                         |                           |
| 10              | QPSK       | 50      | 0         |                        | 22.10                     |                         |                           |
| 10              | 16QAM      | 1       | 0         |                        | 22.51                     |                         |                           |
| 10              | 16QAM      | 1       | 25        |                        | 22.44                     |                         | 22                        |
| 10              | 16QAM      | 1       | 49        |                        | 22.46                     |                         |                           |
| 10              | 16QAM      | 25      | 0         |                        | 21.15                     |                         |                           |
| 10              | 16QAM      | 25      | 12        |                        | 21.18                     |                         |                           |
| 10              | 16QAM      | 25      | 25        |                        | 21.19                     |                         | 22                        |
| 10              | 16QAM      | 50      | 0         |                        | 21.07                     |                         |                           |
| 10              | 64QAM      | 1       | 0         |                        | 21.36                     |                         |                           |
| 10              | 64QAM      | 1       | 25        |                        | 21.39                     |                         |                           |
| 10              | 64QAM      | 1       | 49        |                        | 21.35                     |                         | 22                        |
| 10              | 64QAM      | 25      | 0         |                        | 20.18                     |                         |                           |
| 10              | 64QAM      | 25      | 12        |                        | 20.21                     |                         |                           |
| 10              | 64QAM      | 25      | 25        |                        | 20.23                     |                         |                           |
| 10              | 64QAM      | 50      | 0         |                        | 20.10                     |                         | 21                        |
| Channel         |            |         |           | 23205                  | 23230                     | 23255                   |                           |
| Frequency (MHz) |            |         |           | 779.5                  | 782                       | 784.5                   |                           |
| 5               | QPSK       | 1       | 0         | 23.04                  | 23.07                     | 23.08                   | 24                        |
| 5               | QPSK       | 1       | 12        | 23.09                  | 23.12                     | 23.14                   |                           |
| 5               | QPSK       | 1       | 24        | 23.14                  | 23.13                     | 23.12                   |                           |
| 5               | QPSK       | 12      | 0         | 22.11                  | 22.12                     | 22.12                   |                           |
| 5               | QPSK       | 12      | 7         | 22.22                  | 22.17                     | 22.22                   | 23                        |
| 5               | QPSK       | 12      | 13        | 22.22                  | 22.21                     | 22.20                   |                           |
| 5               | QPSK       | 25      | 0         | 22.18                  | 22.13                     | 22.19                   |                           |
| 5               | 16QAM      | 1       | 0         | 22.36                  | 22.34                     | 22.42                   |                           |
| 5               | 16QAM      | 1       | 12        | 22.36                  | 22.37                     | 22.41                   | 23                        |
| 5               | 16QAM      | 1       | 24        | 22.48                  | 22.44                     | 22.47                   |                           |
| 5               | 16QAM      | 12      | 0         | 21.18                  | 21.13                     | 21.13                   |                           |
| 5               | 16QAM      | 12      | 7         | 21.24                  | 21.18                     | 21.22                   |                           |
| 5               | 16QAM      | 12      | 13        | 21.22                  | 21.21                     | 21.21                   | 22                        |
| 5               | 16QAM      | 25      | 0         | 21.21                  | 21.14                     | 21.20                   |                           |
| 5               | 64QAM      | 1       | 0         | 21.33                  | 21.28                     | 21.29                   |                           |
| 5               | 64QAM      | 1       | 12        | 21.32                  | 21.29                     | 21.28                   |                           |
| 5               | 64QAM      | 1       | 24        | 21.34                  | 21.32                     | 21.35                   | 22                        |
| 5               | 64QAM      | 12      | 0         | 20.22                  | 20.18                     | 20.18                   |                           |
| 5               | 64QAM      | 12      | 7         | 20.30                  | 20.24                     | 20.29                   |                           |
| 5               | 64QAM      | 12      | 13        | 20.26                  | 20.26                     | 20.28                   |                           |
| 5               | 64QAM      | 25      | 0         | 20.22                  | 20.16                     | 20.24                   | 21                        |



| Band 17_Ant 1   |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 23740                 | 23790                    | 23800                  |                     |
| Frequency (MHz) |            |         |           | 708                   | 710                      | 711                    |                     |
| 10              | QPSK       | 1       | 0         | 22.94                 | 22.90                    | 22.94                  | 24                  |
| 10              | QPSK       | 1       | 25        | 22.96                 | 23.00                    | 23.02                  |                     |
| 10              | QPSK       | 1       | 49        | 23.07                 | 23.04                    | 23.05                  |                     |
| 10              | QPSK       | 25      | 0         | 22.04                 | 22.04                    | 22.08                  |                     |
| 10              | QPSK       | 25      | 12        | 22.09                 | 22.09                    | 22.11                  | 23                  |
| 10              | QPSK       | 25      | 25        | 22.16                 | 22.16                    | 22.20                  |                     |
| 10              | QPSK       | 50      | 0         | 22.08                 | 22.08                    | 22.09                  |                     |
| 10              | 16QAM      | 1       | 0         | 22.26                 | 22.28                    | 22.29                  |                     |
| 10              | 16QAM      | 1       | 25        | 22.37                 | 22.33                    | 22.37                  | 23                  |
| 10              | 16QAM      | 1       | 49        | 22.43                 | 22.41                    | 22.40                  |                     |
| 10              | 16QAM      | 25      | 0         | 21.04                 | 21.06                    | 21.07                  |                     |
| 10              | 16QAM      | 25      | 12        | 21.08                 | 21.10                    | 21.10                  |                     |
| 10              | 16QAM      | 25      | 25        | 21.18                 | 21.14                    | 21.18                  | 22                  |
| 10              | 16QAM      | 50      | 0         | 21.06                 | 21.06                    | 21.08                  |                     |
| 10              | 64QAM      | 1       | 0         | 21.11                 | 21.09                    | 21.20                  |                     |
| 10              | 64QAM      | 1       | 25        | 21.26                 | 21.29                    | 21.29                  |                     |
| 10              | 64QAM      | 1       | 49        | 21.33                 | 21.31                    | 21.31                  | 22                  |
| 10              | 64QAM      | 25      | 0         | 20.08                 | 20.07                    | 20.10                  |                     |
| 10              | 64QAM      | 25      | 12        | 20.13                 | 20.14                    | 20.14                  |                     |
| 10              | 64QAM      | 25      | 25        | 20.21                 | 20.21                    | 20.20                  |                     |
| 10              | 64QAM      | 50      | 0         | 20.11                 | 20.10                    | 20.11                  | 21                  |
| Channel         |            |         |           | 23755                 | 23790                    | 23805                  |                     |
| Frequency (MHz) |            |         |           | 708.5                 | 710                      | 713.5                  |                     |
| 5               | QPSK       | 1       | 0         | 22.88                 | 22.92                    | 22.95                  | 24                  |
| 5               | QPSK       | 1       | 12        | 23.03                 | 23.05                    | 23.06                  |                     |
| 5               | QPSK       | 1       | 24        | 23.09                 | 23.04                    | 23.01                  |                     |
| 5               | QPSK       | 12      | 0         | 22.04                 | 22.05                    | 22.07                  |                     |
| 5               | QPSK       | 12      | 7         | 22.15                 | 22.15                    | 22.17                  | 23                  |
| 5               | QPSK       | 12      | 13        | 22.14                 | 22.15                    | 22.15                  |                     |
| 5               | QPSK       | 25      | 0         | 22.11                 | 22.14                    | 22.09                  |                     |
| 5               | 16QAM      | 1       | 0         | 22.24                 | 22.25                    | 22.30                  |                     |
| 5               | 16QAM      | 1       | 12        | 22.26                 | 22.28                    | 22.35                  | 23                  |
| 5               | 16QAM      | 1       | 24        | 22.38                 | 22.36                    | 22.39                  |                     |
| 5               | 16QAM      | 12      | 0         | 21.08                 | 21.08                    | 21.08                  |                     |
| 5               | 16QAM      | 12      | 7         | 21.15                 | 21.17                    | 21.19                  |                     |
| 5               | 16QAM      | 12      | 13        | 21.15                 | 21.14                    | 21.15                  | 22                  |
| 5               | 16QAM      | 25      | 0         | 21.14                 | 21.16                    | 21.08                  |                     |
| 5               | 64QAM      | 1       | 0         | 21.13                 | 21.17                    | 21.18                  |                     |
| 5               | 64QAM      | 1       | 12        | 21.20                 | 21.21                    | 21.25                  |                     |
| 5               | 64QAM      | 1       | 24        | 21.32                 | 21.28                    | 21.27                  | 22                  |
| 5               | 64QAM      | 12      | 0         | 20.10                 | 20.13                    | 20.15                  |                     |
| 5               | 64QAM      | 12      | 7         | 20.24                 | 20.24                    | 20.26                  |                     |
| 5               | 64QAM      | 12      | 13        | 20.20                 | 20.22                    | 20.21                  |                     |
| 5               | 64QAM      | 25      | 0         | 20.15                 | 20.17                    | 20.12                  | 21                  |



| Band 25_Ant 3   |            |         |           |                             |                                |                              |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 26140 | Power Middle Ch. / Freq. 26340 | Power High Ch. / Freq. 26590 |
| Channel         |            |         |           | 1680                        | 1880                           | 1905                         |
| Frequency (MHz) |            |         |           | 23.31                       | 23.26                          | 23.27                        |
| 20              | QPSK       | 1       | 0         | 23.31                       | 23.26                          | 23.27                        |
| 20              | QPSK       | 1       | 49        | 23.19                       | 23.20                          | 23.26                        |
| 20              | QPSK       | 1       | 99        | 23.18                       | 23.28                          | 23.23                        |
| 20              | QPSK       | 50      | 0         | 22.34                       | 22.28                          | 22.30                        |
| 20              | QPSK       | 50      | 24        | 22.35                       | 22.35                          | 22.32                        |
| 20              | QPSK       | 50      | 50        | 22.28                       | 22.33                          | 22.31                        |
| 20              | QPSK       | 100     | 0         | 22.23                       | 22.25                          | 22.33                        |
| 20              | 16QAM      | 1       | 0         | 22.62                       | 22.59                          | 22.65                        |
| 20              | 16QAM      | 1       | 49        | 22.55                       | 22.58                          | 22.58                        |
| 20              | 16QAM      | 1       | 99        | 22.56                       | 22.64                          | 22.57                        |
| 20              | 16QAM      | 50      | 0         | 21.34                       | 21.28                          | 21.32                        |
| 20              | 16QAM      | 50      | 24        | 21.33                       | 21.38                          | 21.31                        |
| 20              | 16QAM      | 50      | 50        | 21.29                       | 21.35                          | 21.35                        |
| 20              | 16QAM      | 100     | 0         | 21.24                       | 21.27                          | 21.31                        |
| 20              | 64QAM      | 1       | 0         | 21.53                       | 21.48                          | 21.52                        |
| 20              | 64QAM      | 1       | 49        | 21.42                       | 21.48                          | 21.48                        |
| 20              | 64QAM      | 1       | 99        | 21.45                       | 21.47                          | 21.49                        |
| 20              | 64QAM      | 50      | 0         | 20.37                       | 20.30                          | 20.35                        |
| 20              | 64QAM      | 50      | 24        | 20.38                       | 20.39                          | 20.34                        |
| 20              | 64QAM      | 50      | 50        | 20.31                       | 20.35                          | 20.37                        |
| 20              | 64QAM      | 100     | 0         | 20.28                       | 20.29                          | 20.33                        |
| Channel         |            |         |           | 26115                       | 26340                          | 26615                        |
| Frequency (MHz) |            |         |           | 1857.5                      | 1880                           | 1907.5                       |
| 15              | QPSK       | 1       | 0         | 23.08                       | 23.27                          | 23.30                        |
| 15              | QPSK       | 1       | 37        | 23.23                       | 23.22                          | 23.23                        |
| 15              | QPSK       | 1       | 74        | 23.13                       | 23.27                          | 23.26                        |
| 15              | QPSK       | 36      | 0         | 22.27                       | 22.20                          | 22.24                        |
| 15              | QPSK       | 36      | 20        | 22.34                       | 22.37                          | 22.41                        |
| 15              | QPSK       | 36      | 39        | 22.30                       | 22.33                          | 22.33                        |
| 15              | QPSK       | 75      | 0         | 22.28                       | 22.31                          | 22.34                        |
| 15              | 16QAM      | 1       | 0         | 22.39                       | 22.57                          | 22.62                        |
| 15              | 16QAM      | 1       | 37        | 22.58                       | 22.60                          | 22.61                        |
| 15              | 16QAM      | 1       | 74        | 22.44                       | 22.58                          | 22.61                        |
| 15              | 16QAM      | 36      | 0         | 21.28                       | 21.20                          | 21.23                        |
| 15              | 16QAM      | 36      | 20        | 21.34                       | 21.39                          | 21.39                        |
| 15              | 16QAM      | 36      | 39        | 21.30                       | 21.34                          | 21.36                        |
| 15              | 16QAM      | 75      | 0         | 21.30                       | 21.33                          | 21.33                        |
| 15              | 64QAM      | 1       | 0         | 21.32                       | 21.48                          | 21.51                        |
| 15              | 64QAM      | 1       | 37        | 21.48                       | 21.47                          | 21.52                        |
| 15              | 64QAM      | 1       | 74        | 21.36                       | 21.51                          | 21.51                        |
| 15              | 64QAM      | 36      | 0         | 20.32                       | 20.26                          | 20.29                        |
| 15              | 64QAM      | 36      | 20        | 20.38                       | 20.40                          | 20.41                        |
| 15              | 64QAM      | 36      | 39        | 20.35                       | 20.38                          | 20.41                        |
| 15              | 64QAM      | 75      | 0         | 20.30                       | 20.32                          | 20.37                        |
| Channel         |            |         |           | 26090                       | 26340                          | 26640                        |
| Frequency (MHz) |            |         |           | 1855                        | 1880                           | 1910                         |
| 10              | QPSK       | 1       | 0         | 22.76                       | 22.70                          | 23.03                        |
| 10              | QPSK       | 1       | 25        | 22.85                       | 22.95                          | 22.95                        |
| 10              | QPSK       | 1       | 49        | 22.70                       | 22.74                          | 23.02                        |
| 10              | QPSK       | 25      | 0         | 22.02                       | 21.95                          | 21.98                        |
| 10              | QPSK       | 25      | 12        | 22.11                       | 22.12                          | 22.13                        |
| 10              | QPSK       | 25      | 25        | 22.03                       | 22.05                          | 22.07                        |
| 10              | QPSK       | 50      | 0         | 22.04                       | 22.06                          | 22.08                        |
| 10              | 16QAM      | 1       | 0         | 22.10                       | 22.09                          | 22.39                        |
| 10              | 16QAM      | 1       | 25        | 22.23                       | 22.30                          | 22.37                        |
| 10              | 16QAM      | 1       | 49        | 22.09                       | 22.14                          | 22.39                        |
| 10              | 16QAM      | 25      | 0         | 21.02                       | 20.92                          | 20.96                        |
| 10              | 16QAM      | 25      | 12        | 21.10                       | 21.13                          | 21.15                        |
| 10              | 16QAM      | 25      | 25        | 21.05                       | 21.05                          | 21.06                        |
| 10              | 16QAM      | 50      | 0         | 21.03                       | 21.08                          | 21.08                        |
| 10              | 64QAM      | 1       | 0         | 21.05                       | 20.93                          | 21.23                        |
| 10              | 64QAM      | 1       | 25        | 21.28                       | 21.25                          | 21.27                        |
| 10              | 64QAM      | 1       | 49        | 21.00                       | 21.05                          | 21.19                        |
| 10              | 64QAM      | 25      | 0         | 20.08                       | 19.97                          | 20.00                        |
| 10              | 64QAM      | 25      | 12        | 20.16                       | 20.17                          | 20.22                        |
| 10              | 64QAM      | 25      | 25        | 20.07                       | 20.08                          | 20.11                        |
| 10              | 64QAM      | 50      | 0         | 20.06                       | 20.08                          | 20.11                        |
| Channel         |            |         |           | 26065                       | 26340                          | 26665                        |
| Frequency (MHz) |            |         |           | 1852.5                      | 1880                           | 1912.5                       |
| 5               | QPSK       | 1       | 0         | 22.88                       | 22.89                          | 22.93                        |
| 5               | QPSK       | 1       | 12        | 23.03                       | 23.01                          | 23.04                        |
| 5               | QPSK       | 1       | 24        | 23.02                       | 23.07                          | 23.02                        |
| 5               | QPSK       | 12      | 0         | 22.09                       | 22.04                          | 22.03                        |
| 5               | QPSK       | 12      | 7         | 22.11                       | 22.11                          | 22.15                        |
| 5               | QPSK       | 12      | 13        | 22.10                       | 22.14                          | 22.12                        |
| 5               | QPSK       | 25      | 0         | 22.08                       | 22.09                          | 22.09                        |
| 5               | 16QAM      | 1       | 0         | 22.29                       | 22.23                          | 22.27                        |
| 5               | 16QAM      | 1       | 12        | 22.29                       | 22.31                          | 22.34                        |
| 5               | 16QAM      | 1       | 24        | 22.32                       | 22.38                          | 22.35                        |
| 5               | 16QAM      | 12      | 0         | 21.10                       | 21.03                          | 21.04                        |
| 5               | 16QAM      | 12      | 7         | 21.15                       | 21.14                          | 21.13                        |
| 5               | 16QAM      | 12      | 13        | 21.13                       | 21.12                          | 21.16                        |
| 5               | 16QAM      | 25      | 0         | 21.13                       | 21.10                          | 21.11                        |
| 5               | 64QAM      | 1       | 0         | 21.28                       | 21.13                          | 21.17                        |
| 5               | 64QAM      | 1       | 12        | 21.28                       | 21.21                          | 21.23                        |
| 5               | 64QAM      | 1       | 24        | 21.24                       | 21.27                          | 21.28                        |
| 5               | 64QAM      | 12      | 0         | 20.13                       | 20.07                          | 20.08                        |
| 5               | 64QAM      | 12      | 7         | 20.20                       | 20.20                          | 20.19                        |
| 5               | 64QAM      | 12      | 13        | 20.19                       | 20.17                          | 20.19                        |
| 5               | 64QAM      | 25      | 0         | 20.11                       | 20.11                          | 20.12                        |
| Channel         |            |         |           | 26055                       | 26340                          | 26675                        |
| Frequency (MHz) |            |         |           | 1851.5                      | 1880                           | 1913.5                       |
| 3               | QPSK       | 1       | 0         | 23.03                       | 22.95                          | 22.97                        |
| 3               | QPSK       | 1       | 8         | 23.11                       | 23.14                          | 23.10                        |
| 3               | QPSK       | 1       | 14        | 23.07                       | 23.12                          | 23.12                        |
| 3               | QPSK       | 8       | 0         | 22.14                       | 22.05                          | 22.06                        |
| 3               | QPSK       | 8       | 4         | 22.16                       | 22.18                          | 22.11                        |
| 3               | QPSK       | 8       | 7         | 22.14                       | 22.16                          | 22.16                        |
| 3               | QPSK       | 15      | 0         | 22.13                       | 22.12                          | 22.10                        |
| 3               | 16QAM      | 1       | 0         | 22.35                       | 22.28                          | 22.32                        |
| 3               | 16QAM      | 1       | 8         | 22.43                       | 22.45                          | 22.46                        |
| 3               | 16QAM      | 1       | 14        | 22.41                       | 22.42                          | 22.45                        |
| 3               | 16QAM      | 8       | 0         | 21.18                       | 21.12                          | 21.14                        |
| 3               | 16QAM      | 8       | 4         | 21.21                       | 21.19                          | 21.18                        |
| 3               | 16QAM      | 8       | 7         | 21.19                       | 21.23                          | 21.22                        |
| 3               | 16QAM      | 15      | 0         | 21.17                       | 21.17                          | 21.13                        |
| 3               | 64QAM      | 1       | 0         | 21.31                       | 21.24                          | 21.22                        |
| 3               | 64QAM      | 1       | 8         | 21.37                       | 21.35                          | 21.39                        |
| 3               | 64QAM      | 1       | 14        | 21.35                       | 21.36                          | 21.33                        |
| 3               | 64QAM      | 8       | 0         | 20.22                       | 20.14                          | 20.13                        |
| 3               | 64QAM      | 8       | 4         | 20.22                       | 20.21                          | 20.17                        |
| 3               | 64QAM      | 8       | 7         | 20.24                       | 20.21                          | 20.22                        |
| 3               | 64QAM      | 15      | 0         | 20.18                       | 20.19                          | 20.15                        |
| Channel         |            |         |           | 26047                       | 26340                          | 26683                        |
| Frequency (MHz) |            |         |           | 1850.7                      | 1880                           | 1914.3                       |
| 1.4             | QPSK       | 1       | 0         | 22.99                       | 22.94                          | 22.91                        |
| 1.4             | QPSK       | 1       | 3         | 23.06                       | 23.02                          | 23.04                        |
| 1.4             | QPSK       | 1       | 5         | 22.97                       | 22.95                          | 22.96                        |
| 1.4             | QPSK       | 3       | 0         | 23.02                       | 22.95                          | 22.92                        |
| 1.4             | QPSK       | 3       | 1         | 23.05                       | 23.05                          | 22.98                        |
| 1.4             | QPSK       | 3       | 3         | 23.00                       | 23.00                          | 23.00                        |
| 1.4             | QPSK       | 6       | 0         | 22.08                       | 22.06                          | 22.02                        |
| 1.4             | 16QAM      | 1       | 0         | 22.32                       | 22.27                          | 22.25                        |
| 1.4             | 16QAM      | 1       | 3         | 22.38                       | 22.34                          | 22.36                        |
| 1.4             | 16QAM      | 1       | 5         | 22.32                       | 22.31                          | 22.32                        |
| 1.4             | 16QAM      | 3       | 0         | 22.07                       | 22.07                          | 22.03                        |
| 1.4             | 16QAM      | 3       | 1         | 22.14                       | 22.13                          | 22.07                        |
| 1.4             | 16QAM      | 3       | 3         | 22.07                       | 22.08                          | 22.08                        |
| 1.4             | 16QAM      | 6       | 0         | 21.16                       | 21.16                          | 21.10                        |
| 1.4             | 64QAM      | 1       | 0         | 21.20                       | 21.21                          | 21.16                        |
| 1.4             | 64QAM      | 1       | 3         | 21.29                       | 21.30                          | 21.28                        |
| 1.4             | 64QAM      | 1       | 5         | 21.23                       | 21.22                          | 21.21                        |
| 1.4             | 64QAM      | 3       | 0         | 21.21                       | 21.20                          | 21.15                        |
| 1.4             | 64QAM      | 3       | 1         | 21.27                       | 21.25                          | 21.20                        |
| 1.4             | 64QAM      | 3       | 3         | 21.24                       | 21.21                          | 21.22                        |
| 1.4             | 64QAM      | 6       | 0         | 20.10                       | 20.07                          | 20.03                        |

| Band 26_Ant 1   |            |         |           |                                    |                                       |                                     |                           |  |  |  |  |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|---------------------------|--|--|--|--|
| BW<br>(MHz)     | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. Freq.<br>26765 | Power<br>Middle<br>Ch. Freq.<br>26865 | Power<br>High<br>Ch. Freq.<br>26965 | Tune-up<br>limit<br>(dBm) |  |  |  |  |
| Channel         |            |         |           | 821.5                              | 831.5                                 | 841.5                               |                           |  |  |  |  |
| Frequency (MHz) |            |         |           | 23.14                              | 23.18                                 | 23.16                               |                           |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 23.14                              | 23.18                                 | 23.16                               | 24                        |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 23.25                              | 23.22                                 | 23.17                               |                           |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 23.24                              | 23.19                                 | 23.10                               |                           |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 22.17                              | 22.18                                 | 22.14                               | 23                        |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 22.32                              | 22.28                                 | 22.31                               |                           |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 22.27                              | 22.25                                 | 22.21                               |                           |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 22.19                              | 22.18                                 | 22.16                               | 23                        |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 22.48                              | 22.51                                 | 22.47                               |                           |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 22.54                              | 22.54                                 | 22.49                               |                           |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 22.57                              | 22.49                                 | 22.44                               | 22                        |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 21.16                              | 21.17                                 | 21.17                               |                           |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 21.25                              | 21.26                                 | 21.30                               |                           |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 21.28                              | 21.26                                 | 21.23                               | 22                        |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 21.18                              | 21.18                                 | 21.16                               |                           |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 21.34                              | 21.34                                 | 21.39                               |                           |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 21.46                              | 21.44                                 | 21.45                               | 22                        |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 21.49                              | 21.39                                 | 21.32                               |                           |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 20.23                              | 20.23                                 | 20.20                               |                           |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 20.29                              | 20.28                                 | 20.33                               | 21                        |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 20.35                              | 20.30                                 | 20.27                               |                           |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 20.20                              | 20.20                                 | 20.17                               |                           |  |  |  |  |
| Channel         |            |         |           | 26740                              | 26865                                 | 26960                               | Tune-up<br>limit<br>(dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 819                                | 831.5                                 | 844                                 |                           |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 23.03                              | 23.00                                 | 23.05                               | 24                        |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 22.97                              | 23.03                                 | 22.98                               |                           |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 23.01                              | 23.09                                 | 22.94                               |                           |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 21.95                              | 21.96                                 | 21.99                               | 23                        |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 22.14                              | 22.07                                 | 22.10                               |                           |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 22.06                              | 22.09                                 | 22.08                               |                           |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 22.03                              | 21.99                                 | 22.02                               | 23                        |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 22.41                              | 22.41                                 | 22.41                               |                           |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 22.36                              | 22.41                                 | 22.36                               |                           |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 22.37                              | 22.41                                 | 22.32                               | 22                        |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 20.95                              | 20.93                                 | 21.00                               |                           |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 21.13                              | 21.07                                 | 21.10                               |                           |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 21.07                              | 21.07                                 | 21.06                               | 22                        |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 21.06                              | 20.99                                 | 20.99                               |                           |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 21.28                              | 21.28                                 | 21.24                               |                           |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 21.30                              | 21.34                                 | 21.30                               | 21                        |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 21.30                              | 21.31                                 | 21.24                               |                           |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 19.98                              | 19.99                                 | 20.04                               |                           |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 20.17                              | 20.14                                 | 20.15                               | 21                        |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 20.10                              | 20.13                                 | 20.09                               |                           |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 20.08                              | 19.99                                 | 20.04                               |                           |  |  |  |  |
| Channel         |            |         |           | 26715                              | 26865                                 | 27015                               | Tune-up<br>limit<br>(dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 816.5                              | 831.5                                 | 846.5                               |                           |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 22.91                              | 23.03                                 | 22.99                               | 24                        |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 23.05                              | 23.08                                 | 23.02                               |                           |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 23.02                              | 23.11                                 | 22.96                               |                           |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 22.06                              | 22.06                                 | 22.04                               | 23                        |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 22.18                              | 22.17                                 | 22.14                               |                           |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 22.14                              | 22.12                                 | 22.08                               |                           |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 22.14                              | 22.06                                 | 22.03                               | 23                        |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 22.23                              | 22.31                                 | 22.28                               |                           |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 22.41                              | 22.32                                 | 22.24                               |                           |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 22.37                              | 22.39                                 | 22.37                               | 22                        |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 21.07                              | 21.06                                 | 21.06                               |                           |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 21.19                              | 21.18                                 | 21.17                               |                           |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 21.17                              | 21.13                                 | 21.10                               | 22                        |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 21.15                              | 21.07                                 | 21.05                               |                           |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 21.15                              | 21.24                                 | 21.23                               |                           |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 21.30                              | 21.28                                 | 21.19                               | 22                        |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 21.28                              | 21.30                                 | 21.18                               |                           |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 20.10                              | 20.12                                 | 20.11                               |                           |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 20.24                              | 20.25                                 | 20.22                               | 21                        |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 20.21                              | 20.19                                 | 20.14                               |                           |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 20.17                              | 20.09                                 | 20.07                               |                           |  |  |  |  |
| Channel         |            |         |           | 26705                              | 26865                                 | 27025                               | Tune-up<br>limit<br>(dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 815.5                              | 831.5                                 | 847.5                               |                           |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 22.98                              | 23.01                                 | 23.02                               | 24                        |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 23.11                              | 23.13                                 | 23.02                               |                           |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 23.04                              | 23.09                                 | 22.96                               |                           |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 22.06                              | 22.07                                 | 22.08                               | 23                        |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 22.19                              | 22.17                                 | 22.13                               |                           |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 22.16                              | 22.15                                 | 22.07                               |                           |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 22.13                              | 22.08                                 | 22.08                               | 23                        |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 22.27                              | 22.35                                 | 22.36                               |                           |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 22.36                              | 22.38                                 | 22.30                               |                           |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 22.33                              | 22.40                                 | 22.29                               | 22                        |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 21.12                              | 21.13                                 | 21.13                               |                           |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 21.24                              | 21.22                                 | 21.18                               |                           |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 21.18                              | 21.18                                 | 21.13                               | 22                        |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 21.16                              | 21.11                                 | 21.12                               |                           |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 21.20                              | 21.21                                 | 21.23                               |                           |  |  |  |  |
| 3               | 64QAM      | 1       | 8         | 21.35                              | 21.34                                 | 21.24                               | 22                        |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 21.27                              | 21.30                                 | 21.17                               |                           |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 20.14                              | 20.14                                 | 20.17                               |                           |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 20.25                              | 20.25                                 | 20.20                               | 21                        |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 20.21                              | 20.20                                 | 20.16                               |                           |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 20.17                              | 20.12                                 | 20.12                               |                           |  |  |  |  |
| Channel         |            |         |           | 26697                              | 26865                                 | 27033                               | Tune-up<br>limit<br>(dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 814.7                              | 831.5                                 | 848.3                               |                           |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 22.96                              | 22.93                                 | 22.85                               | 24                        |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 23.08                              | 23.05                                 | 22.91                               |                           |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 22.97                              | 23.06                                 | 22.87                               |                           |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 22.95                              | 22.95                                 | 22.86                               | 23                        |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 23.05                              | 23.00                                 | 22.94                               |                           |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 23.00                              | 23.01                                 | 22.87                               |                           |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 22.08                              | 22.03                                 | 21.98                               | 23                        |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 22.23                              | 22.25                                 | 22.23                               |                           |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 22.41                              | 22.36                                 | 22.27                               |                           |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 22.31                              | 22.33                                 | 22.17                               | 23                        |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 22.05                              | 22.00                                 | 21.96                               |                           |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 22.13                              | 22.08                                 | 21.97                               |                           |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 22.04                              | 22.06                                 | 21.91                               | 22                        |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 21.17                              | 21.11                                 | 21.09                               |                           |  |  |  |  |
| 1.4             | 64QAM      | 1       | 0         | 21.14                              | 21.15                                 | 21.13                               |                           |  |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 21.25                              | 21.28                                 | 21.16                               | 22                        |  |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 21.22                              | 21.22                                 | 21.10                               |                           |  |  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 21.20                              | 21.16                                 | 21.11                               |                           |  |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 21.27                              | 21.23                                 | 21.15                               | 21                        |  |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 21.21                              | 21.21                                 | 21.09                               |                           |  |  |  |  |
| 1.4             | 64QAM      | 6       | 0         | 20.08                              | 20.04                                 | 20.00                               |                           |  |  |  |  |

| Band 66_Ant 3   |            |         |           |                       |                          |                        |                     |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 132072                | 132322                   | 132572                 |                     |  |  |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |  |  |
| 20              | QPSK       | 1       | 0         | 23.01                 | 23.01                    | 23.33                  | 24                  |  |  |
| 20              | QPSK       | 1       | 49        | 23.20                 | 23.19                    | 23.23                  |                     |  |  |
| 20              | QPSK       | 1       | 99        | 22.94                 | 22.99                    | 23.14                  |                     |  |  |
| 20              | QPSK       | 50      | 0         | 22.28                 | 22.30                    | 22.29                  |                     |  |  |
| 20              | QPSK       | 50      | 24        | 22.37                 | 22.31                    | 22.40                  | 23                  |  |  |
| 20              | QPSK       | 50      | 50        | 22.27                 | 22.27                    | 22.28                  |                     |  |  |
| 20              | QPSK       | 100     | 0         | 22.29                 | 22.32                    | 22.34                  |                     |  |  |
| 20              | 16QAM      | 1       | 0         | 22.34                 | 22.40                    | 22.87                  |                     |  |  |
| 20              | 16QAM      | 1       | 49        | 22.60                 | 22.58                    | 22.82                  | 23                  |  |  |
| 20              | 16QAM      | 1       | 99        | 22.35                 | 22.30                    | 22.54                  |                     |  |  |
| 20              | 16QAM      | 50      | 0         | 21.28                 | 21.31                    | 21.32                  |                     |  |  |
| 20              | 16QAM      | 50      | 24        | 21.39                 | 21.33                    | 21.42                  |                     |  |  |
| 20              | 16QAM      | 50      | 50        | 21.26                 | 21.29                    | 21.29                  | 22                  |  |  |
| 20              | 16QAM      | 100     | 0         | 21.30                 | 21.31                    | 21.34                  |                     |  |  |
| 20              | 64QAM      | 1       | 0         | 21.23                 | 21.22                    | 21.44                  |                     |  |  |
| 20              | 64QAM      | 1       | 49        | 21.45                 | 21.45                    | 21.40                  |                     |  |  |
| 20              | 64QAM      | 1       | 99        | 21.21                 | 21.18                    | 21.38                  | 22                  |  |  |
| 20              | 64QAM      | 50      | 0         | 20.30                 | 20.32                    | 20.21                  |                     |  |  |
| 20              | 64QAM      | 50      | 24        | 20.40                 | 20.36                    | 20.26                  |                     |  |  |
| 20              | 64QAM      | 50      | 50        | 20.30                 | 20.30                    | 20.18                  |                     |  |  |
| 20              | 64QAM      | 100     | 0         | 20.33                 | 20.33                    | 20.15                  | 21                  |  |  |
| Channel         |            |         |           | 132047                | 132322                   | 132697                 |                     |  |  |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |  |  |
| 15              | QPSK       | 1       | 0         | 23.16                 | 23.16                    | 23.32                  | 24                  |  |  |
| 15              | QPSK       | 1       | 37        | 23.18                 | 23.24                    | 23.21                  |                     |  |  |
| 15              | QPSK       | 1       | 74        | 23.07                 | 23.10                    | 23.17                  |                     |  |  |
| 15              | QPSK       | 36      | 0         | 22.29                 | 22.30                    | 22.33                  |                     |  |  |
| 15              | QPSK       | 36      | 20        | 22.38                 | 22.37                    | 22.31                  | 23                  |  |  |
| 15              | QPSK       | 36      | 39        | 22.28                 | 22.31                    | 22.31                  |                     |  |  |
| 15              | QPSK       | 75      | 0         | 22.33                 | 22.34                    | 22.27                  |                     |  |  |
| 15              | 16QAM      | 1       | 0         | 22.48                 | 22.49                    | 22.87                  |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 22.57                 | 22.57                    | 22.59                  | 23                  |  |  |
| 15              | 16QAM      | 1       | 74        | 22.44                 | 22.41                    | 22.51                  |                     |  |  |
| 15              | 16QAM      | 36      | 0         | 21.30                 | 21.32                    | 21.34                  |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 21.36                 | 21.39                    | 21.31                  |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 21.31                 | 21.31                    | 21.32                  | 22                  |  |  |
| 15              | 16QAM      | 75      | 0         | 21.33                 | 21.34                    | 21.29                  |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 21.34                 | 21.38                    | 21.47                  |                     |  |  |
| 15              | 64QAM      | 1       | 37        | 21.45                 | 21.46                    | 21.43                  |                     |  |  |
| 15              | 64QAM      | 1       | 74        | 21.29                 | 21.29                    | 21.35                  | 22                  |  |  |
| 15              | 64QAM      | 36      | 0         | 20.34                 | 20.39                    | 20.33                  |                     |  |  |
| 15              | 64QAM      | 36      | 20        | 20.38                 | 20.42                    | 20.28                  |                     |  |  |
| 15              | 64QAM      | 36      | 39        | 20.33                 | 20.34                    | 20.23                  |                     |  |  |
| 15              | 64QAM      | 75      | 0         | 20.34                 | 20.36                    | 20.17                  | 21                  |  |  |
| Channel         |            |         |           | 132022                | 132322                   | 132692                 |                     |  |  |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |  |  |
| 10              | QPSK       | 1       | 0         | 22.76                 | 22.79                    | 22.83                  | 24                  |  |  |
| 10              | QPSK       | 1       | 25        | 23.03                 | 23.04                    | 23.02                  |                     |  |  |
| 10              | QPSK       | 1       | 49        | 22.89                 | 22.79                    | 22.83                  |                     |  |  |
| 10              | QPSK       | 25      | 0         | 22.06                 | 22.07                    | 22.06                  |                     |  |  |
| 10              | QPSK       | 25      | 12        | 22.17                 | 22.11                    | 22.19                  | 23                  |  |  |
| 10              | QPSK       | 25      | 25        | 22.09                 | 22.08                    | 22.07                  |                     |  |  |
| 10              | QPSK       | 50      | 0         | 22.12                 | 22.13                    | 22.13                  |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 22.19                 | 22.18                    | 22.17                  |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 22.40                 | 22.41                    | 22.41                  | 23                  |  |  |
| 10              | 16QAM      | 1       | 49        | 22.16                 | 22.19                    | 22.19                  |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 21.08                 | 21.07                    | 21.05                  |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 21.20                 | 21.10                    | 21.23                  |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 21.05                 | 21.07                    | 21.06                  | 22                  |  |  |
| 10              | 16QAM      | 50      | 0         | 21.13                 | 21.14                    | 21.12                  |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 21.01                 | 21.04                    | 21.01                  |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 21.38                 | 21.35                    | 21.32                  |                     |  |  |
| 10              | 64QAM      | 1       | 49        | 21.11                 | 21.13                    | 21.09                  | 22                  |  |  |
| 10              | 64QAM      | 25      | 0         | 20.09                 | 20.11                    | 20.09                  |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 20.22                 | 20.15                    | 20.25                  |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 20.09                 | 20.11                    | 20.13                  |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 20.16                 | 20.14                    | 20.16                  | 21                  |  |  |
| Channel         |            |         |           | 131997                | 132322                   | 132697                 |                     |  |  |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |  |  |
| 5               | QPSK       | 1       | 0         | 23.03                 | 23.05                    | 23.03                  | 24                  |  |  |
| 5               | QPSK       | 1       | 12        | 23.09                 | 23.10                    | 23.09                  |                     |  |  |
| 5               | QPSK       | 1       | 24        | 22.99                 | 22.97                    | 22.97                  |                     |  |  |
| 5               | QPSK       | 12      | 0         | 22.17                 | 22.18                    | 22.16                  |                     |  |  |
| 5               | QPSK       | 12      | 7         | 22.19                 | 22.22                    | 22.18                  | 23                  |  |  |
| 5               | QPSK       | 12      | 13        | 22.11                 | 22.12                    | 22.10                  |                     |  |  |
| 5               | QPSK       | 25      | 0         | 22.14                 | 22.14                    | 22.10                  |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 22.37                 | 22.37                    | 22.37                  |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 22.31                 | 22.40                    | 22.40                  | 23                  |  |  |
| 5               | 16QAM      | 1       | 24        | 22.30                 | 22.32                    | 22.32                  |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 21.22                 | 21.21                    | 21.19                  |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 21.20                 | 21.23                    | 21.15                  |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 21.12                 | 21.15                    | 21.16                  | 22                  |  |  |
| 5               | 16QAM      | 25      | 0         | 21.18                 | 21.16                    | 21.09                  |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 21.29                 | 21.31                    | 21.31                  |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 21.28                 | 21.29                    | 21.28                  |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 21.19                 | 21.26                    | 21.22                  | 22                  |  |  |
| 5               | 64QAM      | 12      | 0         | 20.26                 | 20.25                    | 20.23                  |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 20.28                 | 20.29                    | 20.18                  |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 20.10                 | 20.20                    | 20.20                  |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 20.17                 | 20.20                    | 20.16                  | 21                  |  |  |
| Channel         |            |         |           | 131997                | 132322                   | 132695                 |                     |  |  |
| Frequency (MHz) |            |         |           | 1710.7                | 1745                     | 1779.3                 |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 22.99                 | 23.07                    | 23.10                  | 24                  |  |  |
| 1.4             | QPSK       | 1       | 3         | 23.10                 | 23.12                    | 23.12                  |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 22.99                 | 23.04                    | 23.04                  |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 23.07                 | 23.10                    | 23.11                  |                     |  |  |
| 1.4             | QPSK       | 3       | 1         | 23.08                 | 23.11                    | 23.13                  | 23                  |  |  |
| 1.4             | QPSK       | 3       | 3         | 23.03                 | 23.08                    | 23.07                  |                     |  |  |
| 1.4             | QPSK       | 6       | 0         | 22.10                 | 22.15                    | 22.17                  |                     |  |  |
| 1.4             | 16QAM      | 1       | 0         | 22.53                 | 22.42                    | 22.42                  |                     |  |  |
| 1.4             | 16QAM      | 1       | 1         | 22.42                 | 22.43                    | 22.42                  | 23                  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 22.33                 | 22.37                    | 22.36                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 0         | 22.12                 | 22.19                    | 22.19                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 1         | 22.17                 | 22.21                    | 22.24                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 22.08                 | 22.13                    | 22.14                  | 22                  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 21.21                 | 21.23                    | 21.24                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 0         | 21.27                 | 21.32                    | 21.35                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 3         | 21.31                 | 21.34                    | 21.33                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 5         | 21.22                 | 21.26                    | 21.26                  | 22                  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 21.27                 | 21.29                    | 21.29                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 1         | 21.31                 | 21.32                    | 21.32                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 1         | 21.23                 | 21.26                    | 21.24                  |                     |  |  |
| 1.4             | 64QAM      | 6       | 0         | 20.13                 | 20.15                    | 20.17                  | 21                  |  |  |



| Band 2_Ant 3    |            |         |           |                                  |                                     |                                   |                        |  |  |  |  |
|-----------------|------------|---------|-----------|----------------------------------|-------------------------------------|-----------------------------------|------------------------|--|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low Ch./<br>Freq. 18700 | Power<br>Middle Ch./<br>Freq. 18800 | Power<br>High Ch./<br>Freq. 19100 | Tune-up<br>limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 18600                            | 18800                               | 19100                             |                        |  |  |  |  |
| Frequency (MHz) |            |         |           | 18600                            | 18800                               | 19100                             |                        |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 21.72                            | 21.69                               | 21.71                             | 22.5                   |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 21.59                            | 21.60                               | 21.68                             |                        |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 21.53                            | 21.58                               | 21.61                             |                        |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 21.70                            | 21.61                               | 21.67                             |                        |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 21.77                            | 21.78                               | 21.75                             | 22.5                   |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 21.70                            | 21.74                               | 21.78                             |                        |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 21.70                            | 21.70                               | 21.70                             |                        |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 22.06                            | 22.00                               | 22.03                             |                        |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 21.96                            | 21.96                               | 22.03                             | 22.5                   |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 21.91                            | 21.95                               | 21.95                             |                        |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 21.24                            | 21.14                               | 21.17                             |                        |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 21.29                            | 21.29                               | 21.26                             |                        |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 21.24                            | 21.27                               | 21.29                             | 22                     |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 21.22                            | 21.24                               | 21.18                             |                        |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 21.49                            | 21.32                               | 21.40                             |                        |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 21.32                            | 21.35                               | 21.39                             |                        |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 21.31                            | 21.35                               | 21.31                             | 21                     |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 20.23                            | 20.16                               | 20.17                             |                        |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 20.31                            | 20.33                               | 20.27                             |                        |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 20.26                            | 20.28                               | 20.29                             |                        |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 20.25                            | 20.26                               | 20.21                             | Tune-up<br>limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 18675                            | 18900                               | 19125                             |                        |  |  |  |  |
| Frequency (MHz) |            |         |           | 1857.5                           | 1880                                | 1902.5                            |                        |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 21.52                            | 21.65                               | 21.69                             | 22.5                   |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 21.57                            | 21.62                               | 21.63                             |                        |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 21.46                            | 21.65                               | 21.62                             |                        |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 21.69                            | 21.65                               | 21.66                             |                        |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 21.73                            | 21.79                               | 21.78                             | 22.5                   |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 21.70                            | 21.76                               | 21.76                             |                        |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 21.70                            | 21.72                               | 21.68                             |                        |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 21.88                            | 21.97                               | 21.96                             |                        |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 21.92                            | 21.93                               | 21.90                             | 22.5                   |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 21.84                            | 21.92                               | 21.93                             |                        |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 21.22                            | 21.13                               | 21.17                             |                        |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 21.25                            | 21.28                               | 21.29                             |                        |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 21.22                            | 21.25                               | 21.26                             | 22                     |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 21.22                            | 21.24                               | 21.18                             |                        |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 21.24                            | 21.32                               | 21.35                             |                        |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 21.35                            | 21.38                               | 21.39                             |                        |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 21.24                            | 21.31                               | 21.26                             | 21                     |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 20.26                            | 20.17                               | 20.20                             |                        |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 20.28                            | 20.32                               | 20.33                             |                        |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 20.25                            | 20.28                               | 20.27                             |                        |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 20.23                            | 20.23                               | 20.18                             | Tune-up<br>limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 18650                            | 18900                               | 19150                             |                        |  |  |  |  |
| Frequency (MHz) |            |         |           | 1855                             | 1880                                | 1905                              |                        |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 21.26                            | 21.20                               | 21.56                             | 22.5                   |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 21.50                            | 21.49                               | 21.51                             |                        |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 21.23                            | 21.22                               | 21.48                             |                        |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 21.57                            | 21.47                               | 21.48                             |                        |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 21.63                            | 21.64                               | 21.57                             | 22.5                   |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 21.50                            | 21.50                               | 21.53                             |                        |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 21.54                            | 21.55                               | 21.48                             |                        |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 21.58                            | 21.50                               | 21.53                             |                        |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 21.85                            | 21.87                               | 21.80                             | 22.5                   |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 21.56                            | 21.59                               | 21.83                             |                        |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 21.05                            | 20.95                               | 20.97                             |                        |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 21.12                            | 21.13                               | 21.07                             |                        |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 20.99                            | 20.99                               | 21.01                             | 22                     |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 21.02                            | 21.03                               | 20.96                             |                        |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 20.95                            | 20.84                               | 21.25                             |                        |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 21.31                            | 21.28                               | 21.32                             |                        |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 21.02                            | 20.97                               | 21.25                             | 21                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 20.08                            | 19.99                               | 20.03                             |                        |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 20.15                            | 20.17                               | 20.12                             |                        |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 20.01                            | 20.03                               | 20.05                             |                        |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 20.03                            | 20.05                               | 20.00                             | Tune-up<br>limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 18625                            | 18900                               | 19175                             |                        |  |  |  |  |
| Frequency (MHz) |            |         |           | 1852.5                           | 1880                                | 1907.5                            |                        |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 21.56                            | 21.46                               | 21.44                             | 22.5                   |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 21.59                            | 21.56                               | 21.55                             |                        |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 21.41                            | 21.43                               | 21.39                             |                        |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 21.67                            | 21.57                               | 21.59                             |                        |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 21.69                            | 21.65                               | 21.58                             | 22.5                   |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 21.57                            | 21.56                               | 21.56                             |                        |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 21.62                            | 21.58                               | 21.55                             |                        |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 21.81                            | 21.72                               | 21.73                             |                        |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 21.85                            | 21.81                               | 21.83                             | 22.5                   |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 21.75                            | 21.74                               | 21.70                             |                        |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 21.15                            | 21.06                               | 21.09                             |                        |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 21.17                            | 21.13                               | 21.08                             |                        |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 21.05                            | 21.04                               | 21.04                             | 22                     |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 21.14                            | 21.09                               | 21.04                             |                        |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 21.23                            | 21.14                               | 21.19                             |                        |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 21.20                            | 21.25                               | 21.24                             |                        |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 21.11                            | 21.13                               | 21.09                             | 21                     |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 20.24                            | 20.15                               | 20.16                             |                        |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 20.21                            | 20.20                               | 20.14                             |                        |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 20.15                            | 20.11                               | 20.13                             |                        |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 20.13                            | 20.10                               | 20.06                             | Tune-up<br>limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 18615                            | 18900                               | 19185                             |                        |  |  |  |  |
| Frequency (MHz) |            |         |           | 1851.5                           | 1880                                | 1908.5                            |                        |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 21.63                            | 21.52                               | 21.59                             | 22.5                   |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 21.60                            | 21.59                               | 21.58                             |                        |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 21.49                            | 21.47                               | 21.46                             |                        |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 21.65                            | 21.60                               | 21.64                             |                        |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 21.66                            | 21.65                               | 21.64                             | 22.5                   |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 21.63                            | 21.60                               | 21.60                             |                        |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 21.63                            | 21.62                               | 21.61                             |                        |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 21.87                            | 21.81                               | 21.80                             |                        |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 21.93                            | 21.91                               | 21.86                             | 22.5                   |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 21.74                            | 21.73                               | 21.77                             |                        |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 21.21                            | 21.14                               | 21.19                             |                        |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 21.23                            | 21.18                               | 21.21                             |                        |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 21.13                            | 21.14                               | 21.12                             | 22                     |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 21.17                            | 21.14                               | 21.15                             |                        |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 21.29                            | 21.19                               | 21.29                             |                        |  |  |  |  |
| 3               | 64QAM      | 1       | 8         | 21.34                            | 21.27                               | 21.31                             |                        |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 21.20                            | 21.18                               | 21.15                             | 21                     |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 20.22                            | 20.14                               | 20.20                             |                        |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 20.24                            | 20.19                               | 20.20                             |                        |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 20.17                            | 20.15                               | 20.15                             |                        |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 20.17                            | 20.12                               | 20.15                             | Tune-up<br>limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 18607                            | 18900                               | 19193                             |                        |  |  |  |  |
| Frequency (MHz) |            |         |           | 1850.7                           | 1880                                | 1909.3                            |                        |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 21.51                            | 21.49                               | 21.49                             | 22.5                   |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 21.55                            | 21.54                               | 21.49                             |                        |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 21.47                            | 21.41                               | 21.44                             |                        |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 21.53                            | 21.50                               | 21.49                             |                        |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 21.56                            | 21.51                               | 21.49                             | 22.5                   |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 21.48                            | 21.47                               | 21.48                             |                        |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 21.59                            | 21.54                               | 21.55                             |                        |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 21.81                            | 21.78                               | 21.79                             |                        |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 21.85                            | 21.84                               | 21.82                             | 22.5                   |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 21.78                            | 21.74                               | 21.68                             |                        |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 21.58                            | 21.56                               | 21.56                             |                        |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 21.62                            | 21.59                               | 21.60                             | 22                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 21.58                            | 21.53                               | 21.51                             |                        |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 21.77                            | 21.74                               | 21.72                             |                        |  |  |  |  |
| 1.4             | 16QAM      | 6       | 1         | 21.79                            | 21.71                               | 21.72                             |                        |  |  |  |  |
| 1.4             | 64QAM      | 1       | 0         | 21.27                            | 21.24                               | 21.25                             | 22                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 21.13                            | 21.13                               | 21.14                             |                        |  |  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 21.21                            | 21.17                               | 21.19                             |                        |  |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 21.22                            | 21.23                               | 21.21                             |                        |  |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 21.16                            | 21.14                               | 21.14                             | 21                     |  |  |  |  |
| 1.4             | 64QAM      | 6       | 0         | 20.23                            | 20.19                               | 20.20                             |                        |  |  |  |  |
| 1.4             | 64QAM      | 6       | 1         | 20.25                            | 20.20                               | 20.20                             |                        |  |  |  |  |
| 1.4             | 64QAM      | 6       | 3         | 20.19                            | 20.18                               | 20.18                             |                        |  |  |  |  |

| Band 4_Ant 3    |                       |         |           |                          |                             |                           |                        |  |  |
|-----------------|-----------------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|--|--|
| BW (MHz)        | Modulation<br>Channel | RB Size | RB Offset | Power<br>Low Ch. / Freq. | Power<br>Middle Ch. / Freq. | Power<br>High Ch. / Freq. | Tune-up<br>limit (dBm) |  |  |
| Channel         |                       |         |           | 20050                    | 20715                       | 20300                     |                        |  |  |
| Frequency (MHz) |                       |         |           | 1720                     | 1732.5                      | 1745                      |                        |  |  |
| 20              | QPSK                  | 1       | 0         | 21.54                    | 21.53                       | 21.57                     | 22.5                   |  |  |
| 20              | QPSK                  | 1       | 49        | 21.72                    | 21.73                       | 21.75                     |                        |  |  |
| 20              | QPSK                  | 1       | 99        | 21.45                    | 21.43                       | 21.44                     |                        |  |  |
| 20              | QPSK                  | 50      | 0         | 21.76                    | 21.76                       | 21.76                     |                        |  |  |
| 20              | QPSK                  | 50      | 24        | 21.90                    | 21.81                       | 21.80                     | 22.5                   |  |  |
| 20              | QPSK                  | 50      | 50        | 21.79                    | 21.77                       | 21.77                     |                        |  |  |
| 20              | QPSK                  | 100     | 0         | 21.81                    | 21.74                       | 21.73                     |                        |  |  |
| 20              | 16QAM                 | 1       | 0         | 21.90                    | 21.89                       | 21.91                     | 22.5                   |  |  |
| 20              | 16QAM                 | 1       | 49        | 22.10                    | 22.11                       | 22.11                     |                        |  |  |
| 20              | 16QAM                 | 1       | 99        | 21.90                    | 21.81                       | 21.75                     |                        |  |  |
| 20              | 16QAM                 | 50      | 0         | 21.29                    | 21.29                       | 21.27                     |                        |  |  |
| 20              | 16QAM                 | 50      | 24        | 21.42                    | 21.33                       | 21.32                     | 22                     |  |  |
| 20              | 16QAM                 | 50      | 50        | 21.32                    | 21.32                       | 21.31                     |                        |  |  |
| 20              | 16QAM                 | 100     | 0         | 21.33                    | 21.24                       | 21.25                     |                        |  |  |
| 20              | 64QAM                 | 1       | 0         | 21.25                    | 21.27                       | 21.28                     |                        |  |  |
| 20              | 64QAM                 | 1       | 49        | 21.37                    | 21.53                       | 21.51                     | 22                     |  |  |
| 20              | 64QAM                 | 1       | 99        | 21.23                    | 21.18                       | 21.17                     |                        |  |  |
| 20              | 64QAM                 | 50      | 0         | 20.31                    | 20.31                       | 20.30                     |                        |  |  |
| 20              | 64QAM                 | 50      | 24        | 20.41                    | 20.34                       | 20.34                     |                        |  |  |
| 20              | 64QAM                 | 50      | 50        | 20.33                    | 20.32                       | 20.33                     | 21                     |  |  |
| 20              | 64QAM                 | 100     | 0         | 20.33                    | 20.27                       | 20.28                     |                        |  |  |
| Channel         |                       |         |           | 20025                    | 20715                       | 20305                     | Tune-up<br>limit (dBm) |  |  |
| Frequency (MHz) |                       |         |           | 1717.5                   | 1732.5                      | 1747.5                    |                        |  |  |
| 15              | QPSK                  | 1       | 0         | 21.58                    | 21.60                       | 21.59                     | 22.5                   |  |  |
| 15              | QPSK                  | 1       | 37        | 21.70                    | 21.70                       | 21.69                     |                        |  |  |
| 15              | QPSK                  | 1       | 74        | 21.57                    | 21.57                       | 21.57                     |                        |  |  |
| 15              | QPSK                  | 36      | 0         | 21.74                    | 21.75                       | 21.73                     |                        |  |  |
| 15              | QPSK                  | 36      | 20        | 21.87                    | 21.78                       | 21.86                     | 22.5                   |  |  |
| 15              | QPSK                  | 36      | 39        | 21.78                    | 21.79                       | 21.77                     |                        |  |  |
| 15              | QPSK                  | 75      | 0         | 21.81                    | 21.73                       | 21.81                     |                        |  |  |
| 15              | 16QAM                 | 1       | 0         | 21.92                    | 21.95                       | 21.92                     |                        |  |  |
| 15              | 16QAM                 | 1       | 37        | 22.09                    | 22.09                       | 22.07                     | 22.5                   |  |  |
| 15              | 16QAM                 | 1       | 74        | 21.96                    | 21.93                       | 21.91                     |                        |  |  |
| 15              | 16QAM                 | 36      | 0         | 21.28                    | 21.29                       | 21.26                     |                        |  |  |
| 15              | 16QAM                 | 36      | 20        | 21.37                    | 21.30                       | 21.37                     |                        |  |  |
| 15              | 16QAM                 | 36      | 39        | 21.32                    | 21.32                       | 21.30                     | 22                     |  |  |
| 15              | 16QAM                 | 75      | 0         | 21.33                    | 21.26                       | 21.31                     |                        |  |  |
| 15              | 64QAM                 | 1       | 0         | 21.29                    | 21.32                       | 21.32                     |                        |  |  |
| 15              | 64QAM                 | 1       | 37        | 21.41                    | 21.48                       | 21.45                     |                        |  |  |
| 15              | 64QAM                 | 1       | 74        | 21.29                    | 21.30                       | 21.31                     | 22                     |  |  |
| 15              | 64QAM                 | 36      | 0         | 20.29                    | 20.31                       | 20.28                     |                        |  |  |
| 15              | 64QAM                 | 36      | 20        | 20.37                    | 20.33                       | 20.39                     |                        |  |  |
| 15              | 64QAM                 | 36      | 39        | 20.52                    | 20.35                       | 20.34                     |                        |  |  |
| 15              | 64QAM                 | 75      | 0         | 20.32                    | 20.27                       | 20.31                     | 21                     |  |  |
| 15              | 64QAM                 | 100     | 0         | 20.32                    | 20.27                       | 20.31                     |                        |  |  |
| Channel         |                       |         |           | 20000                    | 20715                       | 20350                     | Tune-up<br>limit (dBm) |  |  |
| Frequency (MHz) |                       |         |           | 1715                     | 1732.5                      | 1750                      |                        |  |  |
| 10              | QPSK                  | 1       | 0         | 21.28                    | 21.30                       | 21.32                     | 22.5                   |  |  |
| 10              | QPSK                  | 1       | 25        | 21.53                    | 21.59                       | 21.57                     |                        |  |  |
| 10              | QPSK                  | 1       | 49        | 21.27                    | 21.25                       | 21.25                     |                        |  |  |
| 10              | QPSK                  | 25      | 0         | 21.55                    | 21.55                       | 21.54                     |                        |  |  |
| 10              | QPSK                  | 25      | 12        | 21.70                    | 21.64                       | 21.61                     | 22.5                   |  |  |
| 10              | QPSK                  | 25      | 25        | 21.56                    | 21.57                       | 21.55                     |                        |  |  |
| 10              | QPSK                  | 50      | 0         | 21.62                    | 21.54                       | 21.52                     |                        |  |  |
| 10              | 16QAM                 | 1       | 0         | 21.69                    | 21.70                       | 21.67                     |                        |  |  |
| 10              | 16QAM                 | 1       | 25        | 21.97                    | 21.95                       | 21.97                     | 22.5                   |  |  |
| 10              | 16QAM                 | 1       | 49        | 21.63                    | 21.68                       | 21.61                     |                        |  |  |
| 10              | 16QAM                 | 25      | 0         | 21.08                    | 21.07                       | 21.05                     |                        |  |  |
| 10              | 16QAM                 | 25      | 12        | 21.24                    | 21.15                       | 21.14                     |                        |  |  |
| 10              | 16QAM                 | 25      | 25        | 21.07                    | 21.07                       | 21.06                     | 22                     |  |  |
| 10              | 16QAM                 | 50      | 0         | 21.13                    | 21.03                       | 21.03                     |                        |  |  |
| 10              | 64QAM                 | 1       | 0         | 21.00                    | 21.02                       | 21.02                     |                        |  |  |
| 10              | 64QAM                 | 1       | 25        | 21.38                    | 21.38                       | 21.38                     |                        |  |  |
| 10              | 64QAM                 | 1       | 49        | 21.06                    | 21.05                       | 20.99                     | 21                     |  |  |
| 10              | 64QAM                 | 25      | 0         | 20.10                    | 20.12                       | 20.10                     |                        |  |  |
| 10              | 64QAM                 | 25      | 12        | 20.25                    | 20.20                       | 20.19                     |                        |  |  |
| 10              | 64QAM                 | 25      | 25        | 20.12                    | 20.13                       | 20.10                     |                        |  |  |
| 10              | 64QAM                 | 50      | 0         | 20.14                    | 20.09                       | 20.07                     |                        |  |  |
| 10              | 64QAM                 | 100     | 0         | 20.14                    | 20.09                       | 20.07                     |                        |  |  |
| Channel         |                       |         |           | 19975                    | 20715                       | 20375                     | Tune-up<br>limit (dBm) |  |  |
| Frequency (MHz) |                       |         |           | 1712.5                   | 1732.5                      | 1752.5                    |                        |  |  |
| 5               | QPSK                  | 1       | 0         | 21.52                    | 21.52                       | 21.52                     | 22.5                   |  |  |
| 5               | QPSK                  | 1       | 12        | 21.62                    | 21.64                       | 21.59                     |                        |  |  |
| 5               | QPSK                  | 1       | 24        | 21.47                    | 21.45                       | 21.47                     |                        |  |  |
| 5               | QPSK                  | 12      | 0         | 21.69                    | 21.67                       | 21.64                     |                        |  |  |
| 5               | QPSK                  | 12      | 7         | 21.70                    | 21.73                       | 21.71                     | 22.5                   |  |  |
| 5               | QPSK                  | 12      | 13        | 21.64                    | 21.66                       | 21.62                     |                        |  |  |
| 5               | QPSK                  | 25      | 0         | 21.66                    | 21.60                       | 21.64                     |                        |  |  |
| 5               | 16QAM                 | 1       | 0         | 21.85                    | 21.84                       | 21.83                     |                        |  |  |
| 5               | 16QAM                 | 1       | 12        | 21.91                    | 21.92                       | 21.88                     | 22.5                   |  |  |
| 5               | 16QAM                 | 1       | 24        | 21.82                    | 21.80                       | 21.79                     |                        |  |  |
| 5               | 16QAM                 | 12      | 0         | 21.25                    | 21.19                       | 21.14                     |                        |  |  |
| 5               | 16QAM                 | 12      | 7         | 21.26                    | 21.25                       | 21.21                     |                        |  |  |
| 5               | 16QAM                 | 12      | 13        | 21.14                    | 21.15                       | 21.15                     | 22                     |  |  |
| 5               | 16QAM                 | 25      | 0         | 21.20                    | 21.17                       | 21.17                     |                        |  |  |
| 5               | 64QAM                 | 1       | 0         | 21.31                    | 21.28                       | 21.28                     |                        |  |  |
| 5               | 64QAM                 | 1       | 12        | 21.30                    | 21.35                       | 21.28                     |                        |  |  |
| 5               | 64QAM                 | 1       | 24        | 21.18                    | 21.26                       | 21.20                     | 21                     |  |  |
| 5               | 64QAM                 | 12      | 0         | 20.28                    | 20.26                       | 20.21                     |                        |  |  |
| 5               | 64QAM                 | 12      | 7         | 20.30                    | 20.33                       | 20.28                     |                        |  |  |
| 5               | 64QAM                 | 12      | 13        | 20.20                    | 20.23                       | 20.20                     |                        |  |  |
| 5               | 64QAM                 | 25      | 0         | 20.19                    | 20.15                       | 20.16                     |                        |  |  |
| 5               | 64QAM                 | 50      | 0         | 20.19                    | 20.15                       | 20.16                     |                        |  |  |
| Channel         |                       |         |           | 19965                    | 20715                       | 20385                     | Tune-up<br>limit (dBm) |  |  |
| Frequency (MHz) |                       |         |           | 1711.5                   | 1732.5                      | 1753.5                    |                        |  |  |
| 3               | QPSK                  | 1       | 0         | 21.60                    | 21.63                       | 21.55                     | 22.5                   |  |  |
| 3               | QPSK                  | 1       | 8         | 21.66                    | 21.65                       | 21.63                     |                        |  |  |
| 3               | QPSK                  | 1       | 14        | 21.54                    | 21.55                       | 21.53                     |                        |  |  |
| 3               | QPSK                  | 8       | 0         | 21.72                    | 21.65                       | 21.63                     |                        |  |  |
| 3               | QPSK                  | 8       | 4         | 21.73                    | 21.74                       | 21.68                     | 22.5                   |  |  |
| 3               | QPSK                  | 8       | 7         | 21.70                    | 21.68                       | 21.65                     |                        |  |  |
| 3               | QPSK                  | 15      | 0         | 21.68                    | 21.63                       | 21.68                     |                        |  |  |
| 3               | 16QAM                 | 1       | 0         | 21.90                    | 21.89                       | 21.87                     |                        |  |  |
| 3               | 16QAM                 | 1       | 8         | 21.96                    | 22.02                       | 21.94                     | 22.5                   |  |  |
| 3               | 16QAM                 | 1       | 14        | 21.88                    | 21.89                       | 21.84                     |                        |  |  |
| 3               | 16QAM                 | 8       | 0         | 21.26                    | 21.23                       | 21.17                     |                        |  |  |
| 3               | 16QAM                 | 8       | 4         | 21.29                    | 21.30                       | 21.25                     |                        |  |  |
| 3               | 16QAM                 | 8       | 7         | 21.23                    | 21.21                       | 21.20                     | 22                     |  |  |
| 3               | 16QAM                 | 15      | 0         | 21.23                    | 21.17                       | 21.21                     |                        |  |  |
| 3               | 64QAM                 | 1       | 0         | 21.33                    | 21.32                       | 21.31                     |                        |  |  |
| 3               | 64QAM                 | 1       | 8         | 21.37                    | 21.41                       | 21.37                     |                        |  |  |
| 3               | 64QAM                 | 1       | 14        | 21.24                    | 21.31                       | 21.28                     | 21                     |  |  |
| 3               | 64QAM                 | 8       | 0         | 20.31                    | 20.26                       | 20.23                     |                        |  |  |
| 3               | 64QAM                 | 8       | 4         | 20.29                    | 20.28                       | 20.29                     |                        |  |  |
| 3               | 64QAM                 | 8       | 7         | 20.23                    | 20.26                       | 20.22                     |                        |  |  |
| 3               | 64QAM                 | 15      | 0         | 20.22                    | 20.17                       | 20.20                     |                        |  |  |
| 3               | 64QAM                 | 50      | 0         | 20.22                    | 20.17                       | 20.20                     |                        |  |  |
| Channel         |                       |         |           | 19957                    | 20715                       | 20393                     | Tune-up<br>limit (dBm) |  |  |
| Frequency (MHz) |                       |         |           | 1710.7                   | 1732.5                      | 1754.3                    |                        |  |  |
| 1.4             | QPSK                  | 1       | 0         | 21.46                    | 21.55                       | 21.47                     | 22.5                   |  |  |
| 1.4             | QPSK                  | 1       | 3         | 21.58                    | 21.61                       | 21.58                     |                        |  |  |
| 1.4             | QPSK                  | 1       | 5         | 21.46                    | 21.52                       | 21.49                     |                        |  |  |
| 1.4             | QPSK                  | 3       | 0         | 21.55                    | 21.55                       | 21.47                     |                        |  |  |
| 1.4             | QPSK                  | 3       | 1         | 21.57                    | 21.60                       | 21.48                     | 22.5                   |  |  |
| 1.4             | QPSK                  | 3       |           |                          |                             |                           |                        |  |  |
| 1.4             | QPSK                  | 6       | 0         | 21.61                    | 21.64                       | 21.54                     | 22.5                   |  |  |
| 1.4             | 16QAM                 | 1       | 0         | 21.80                    | 21.89                       | 21.80                     |                        |  |  |
| 1.4             | 16QAM                 | 1       | 3         | 21.88                    | 21.95                       | 21.86                     |                        |  |  |
| 1.4             | 16QAM                 | 5       | 0         | 21.85                    | 21.82                       | 21.81                     |                        |  |  |
| 1.4             | 16QAM                 | 3       | 0         | 21.68                    | 21.68                       | 21.60                     | 22.5                   |  |  |
| 1.4             | 16QAM                 | 3       | 1         | 21.68                    | 21.70                       | 21.60                     |                        |  |  |
| 1.4             | 16QAM                 | 3       | 3         | 21.62                    | 21.64                       | 21.58                     |                        |  |  |
| 1.4             | 16QAM                 | 6       | 0         | 21.21                    | 21.22                       | 21.16                     |                        |  |  |
| 1.4             | 16QAM                 | 3       | 0         | 21.29                    | 21.30                       | 21.24                     | 22                     |  |  |
| 1.4             | 16QAM                 | 3       | 3         | 21.29                    | 21.33                       | 21.29                     |                        |  |  |
| 1.4             | 16QAM                 | 3       | 5         | 21.19                    | 21.25                       | 21.21                     |                        |  |  |
| 1.4             | 64QAM                 | 1       | 0         | 21.26                    | 21.28                       | 21.21                     |                        |  |  |
| 1.4             | 64QAM                 | 3       | 1         | 21.31                    | 21.32                       | 21.23                     | 21                     |  |  |
| 1.4             | 64QAM                 | 3       | 3         | 21.23                    | 21.28                       | 21.23                     |                        |  |  |
| 1.4             | 64QAM                 | 3       | 5         | 21.14                    | 21.19                       | 21.14                     |                        |  |  |
| 1.4             | 64QAM                 | 6       | 0         | 21.11                    | 21.14                       | 21.07                     |                        |  |  |



| Band 5_Ant 1    |            |         |           |                       |                          |                        |                     |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 20450                 | 20525                    | 20600                  |                     |  |  |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     |  |  |
| 10              | QPSK       | 1       | 0         | 23.55                 | 23.54                    | 23.57                  | 24.5                |  |  |
| 10              | QPSK       | 1       | 25        | 23.52                 | 23.52                    | 23.55                  |                     |  |  |
| 10              | QPSK       | 1       | 49        | 23.53                 | 23.53                    | 23.47                  |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.11                 | 23.11                    | 23.12                  |                     |  |  |
| 10              | QPSK       | 25      | 12        | 23.17                 | 23.17                    | 23.15                  | 23.5                |  |  |
| 10              | QPSK       | 25      | 25        | 23.14                 | 23.14                    | 23.14                  |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.10                 | 23.11                    | 23.04                  |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 23.39                 | 23.42                    | 23.42                  |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 23.39                 | 23.37                    | 23.43                  | 23.5                |  |  |
| 10              | 16QAM      | 1       | 49        | 23.37                 | 23.40                    | 23.35                  |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 22.12                 | 22.13                    | 22.14                  |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.19                 | 22.19                    | 22.14                  |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 22.18                 | 22.16                    | 22.16                  | 23                  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.10                 | 22.11                    | 22.03                  |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 22.24                 | 22.24                    | 22.31                  |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 22.31                 | 22.31                    | 22.34                  |                     |  |  |
| 10              | 64QAM      | 1       | 49        | 22.26                 | 22.27                    | 22.27                  | 23                  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.13                 | 21.14                    | 21.16                  |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 21.24                 | 21.24                    | 21.19                  |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 21.16                 | 21.19                    | 21.18                  |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.13                 | 21.13                    | 21.08                  | 22                  |  |  |
| Channel         |            |         |           | 20425                 | 20525                    | 20625                  |                     |  |  |
| Frequency (MHz) |            |         |           | 826.5                 | 836.5                    | 846.5                  |                     |  |  |
| 5               | QPSK       | 1       | 0         | 23.45                 | 23.46                    | 23.47                  | 24.5                |  |  |
| 5               | QPSK       | 1       | 12        | 23.55                 | 23.56                    | 23.56                  |                     |  |  |
| 5               | QPSK       | 1       | 24        | 23.54                 | 23.53                    | 23.46                  |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.08                 | 23.09                    | 23.08                  |                     |  |  |
| 5               | QPSK       | 12      | 7         | 23.18                 | 23.19                    | 23.20                  | 23.5                |  |  |
| 5               | QPSK       | 12      | 13        | 23.17                 | 23.18                    | 23.14                  |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.16                 | 23.15                    | 23.14                  |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 23.23                 | 23.28                    | 23.32                  |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 23.32                 | 23.40                    | 23.36                  | 23.5                |  |  |
| 5               | 16QAM      | 1       | 24        | 23.35                 | 23.36                    | 23.31                  |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 22.11                 | 22.12                    | 22.12                  |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.20                 | 22.20                    | 22.21                  |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.17                 | 22.18                    | 22.16                  | 23                  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.16                 | 22.18                    | 22.15                  |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 22.22                 | 22.19                    | 22.20                  |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 22.24                 | 22.31                    | 22.27                  |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 22.25                 | 22.27                    | 22.20                  | 23                  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.16                 | 21.17                    | 21.18                  |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.26                 | 21.29                    | 21.26                  |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 21.24                 | 21.24                    | 21.21                  |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.17                 | 21.19                    | 21.17                  | 22                  |  |  |
| Channel         |            |         |           | 20415                 | 20525                    | 20635                  |                     |  |  |
| Frequency (MHz) |            |         |           | 825.5                 | 836.5                    | 847.5                  |                     |  |  |
| 3               | QPSK       | 1       | 0         | 23.45                 | 23.50                    | 23.49                  | 24.5                |  |  |
| 3               | QPSK       | 1       | 8         | 23.55                 | 23.56                    | 23.53                  |                     |  |  |
| 3               | QPSK       | 1       | 14        | 23.56                 | 23.56                    | 23.50                  |                     |  |  |
| 3               | QPSK       | 8       | 0         | 23.09                 | 23.09                    | 23.09                  |                     |  |  |
| 3               | QPSK       | 8       | 4         | 23.22                 | 23.18                    | 23.17                  | 23.5                |  |  |
| 3               | QPSK       | 8       | 7         | 23.19                 | 23.16                    | 23.13                  |                     |  |  |
| 3               | QPSK       | 15      | 0         | 23.17                 | 23.16                    | 23.10                  |                     |  |  |
| 3               | 16QAM      | 1       | 0         | 23.30                 | 23.30                    | 23.30                  |                     |  |  |
| 3               | 16QAM      | 1       | 8         | 23.41                 | 23.45                    | 23.45                  | 23.5                |  |  |
| 3               | 16QAM      | 1       | 14        | 23.36                 | 23.37                    | 23.35                  |                     |  |  |
| 3               | 16QAM      | 8       | 0         | 22.15                 | 22.16                    | 22.14                  |                     |  |  |
| 3               | 16QAM      | 8       | 4         | 22.24                 | 22.25                    | 22.25                  |                     |  |  |
| 3               | 16QAM      | 8       | 7         | 22.22                 | 22.23                    | 22.21                  | 23                  |  |  |
| 3               | 16QAM      | 15      | 0         | 22.20                 | 22.20                    | 22.12                  |                     |  |  |
| 3               | 64QAM      | 1       | 0         | 22.17                 | 22.20                    | 22.21                  |                     |  |  |
| 3               | 64QAM      | 1       | 8         | 22.33                 | 22.37                    | 22.33                  |                     |  |  |
| 3               | 64QAM      | 1       | 14        | 22.27                 | 22.31                    | 22.25                  | 23                  |  |  |
| 3               | 64QAM      | 8       | 0         | 21.17                 | 21.19                    | 21.18                  |                     |  |  |
| 3               | 64QAM      | 8       | 4         | 21.26                 | 21.28                    | 21.24                  |                     |  |  |
| 3               | 64QAM      | 8       | 7         | 21.23                 | 21.24                    | 21.22                  |                     |  |  |
| 3               | 64QAM      | 15      | 0         | 21.20                 | 21.20                    | 21.15                  | 22                  |  |  |
| Channel         |            |         |           | 20407                 | 20525                    | 20643                  |                     |  |  |
| Frequency (MHz) |            |         |           | 824.7                 | 836.5                    | 848.3                  |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 23.42                 | 23.45                    | 23.49                  | 24.5                |  |  |
| 1.4             | QPSK       | 1       | 3         | 23.55                 | 23.56                    | 23.51                  |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 23.51                 | 23.46                    | 23.43                  |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 23.46                 | 23.48                    | 23.49                  |                     |  |  |
| 1.4             | QPSK       | 3       | 1         | 23.52                 | 23.54                    | 23.52                  | 23.5                |  |  |
| 1.4             | QPSK       | 3       | 3         | 23.49                 | 23.51                    | 23.47                  |                     |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.10                 | 23.11                    | 23.07                  |                     |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.21                 | 23.28                    | 23.27                  |                     |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.37                 | 23.38                    | 23.36                  | 23.5                |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.27                 | 23.29                    | 23.23                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.04                 | 23.09                    | 23.06                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.12                 | 23.13                    | 23.09                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.04                 | 23.10                    | 23.05                  | 23                  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.20                 | 22.17                    | 22.15                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 0         | 22.17                 | 22.22                    | 22.23                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 3         | 22.26                 | 22.28                    | 22.24                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.20                 | 22.19                    | 22.15                  | 23                  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.20                 | 22.19                    | 22.19                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.25                 | 22.26                    | 22.22                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.21                 | 22.21                    | 22.17                  |                     |  |  |
| 1.4             | 64QAM      | 6       | 0         | 21.11                 | 21.12                    | 21.08                  | 22                  |  |  |



| Band 7_Ant 3    |            |         |           |                                   |                                      |                                    |                           |
|-----------------|------------|---------|-----------|-----------------------------------|--------------------------------------|------------------------------------|---------------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq.<br>20850 | Power Middle<br>Ch. / Freq.<br>21100 | Power High<br>Ch. / Freq.<br>21350 | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 2510                              | 2535                                 | 2560                               |                           |
| Frequency (MHz) |            |         |           | 2510                              | 2535                                 | 2560                               |                           |
| 20              | QPSK       | 1       | 0         | 20.34                             | 20.28                                | 20.33                              | 21                        |
| 20              | QPSK       | 1       | 49        | 20.37                             | 20.36                                | 20.41                              |                           |
| 20              | QPSK       | 1       | 99        | 20.40                             | 20.41                                | 20.45                              |                           |
| 20              | QPSK       | 50      | 0         | 20.41                             | 20.45                                | 20.48                              | 21                        |
| 20              | QPSK       | 50      | 24        | 20.52                             | 20.47                                | 20.49                              |                           |
| 20              | QPSK       | 50      | 50        | 20.49                             | 20.52                                | 20.56                              |                           |
| 20              | QPSK       | 100     | 0         | 20.41                             | 20.36                                | 20.39                              | 21                        |
| 20              | 16QAM      | 1       | 0         | 20.68                             | 20.65                                | 20.69                              |                           |
| 20              | 16QAM      | 1       | 49        | 20.67                             | 20.69                                | 20.74                              |                           |
| 20              | 16QAM      | 1       | 99        | 20.75                             | 20.75                                | 20.78                              | 21                        |
| 20              | 16QAM      | 50      | 0         | 20.41                             | 20.42                                | 20.48                              |                           |
| 20              | 16QAM      | 50      | 24        | 20.52                             | 20.43                                | 20.49                              |                           |
| 20              | 16QAM      | 50      | 50        | 20.52                             | 20.54                                | 20.57                              | 21                        |
| 20              | 16QAM      | 100     | 0         | 20.43                             | 20.34                                | 20.42                              |                           |
| 20              | 64QAM      | 1       | 0         | 20.49                             | 20.51                                | 20.56                              |                           |
| 20              | 64QAM      | 1       | 49        | 20.58                             | 20.57                                | 20.63                              | 21                        |
| 20              | 64QAM      | 1       | 99        | 20.64                             | 20.67                                | 20.71                              |                           |
| 20              | 64QAM      | 50      | 0         | 20.44                             | 20.45                                | 20.48                              |                           |
| 20              | 64QAM      | 50      | 24        | 20.55                             | 20.50                                | 20.53                              | 21                        |
| 20              | 64QAM      | 50      | 50        | 20.52                             | 20.56                                | 20.59                              |                           |
| 20              | 64QAM      | 100     | 0         | 20.45                             | 20.39                                | 20.44                              |                           |
| Channel         |            |         |           | 20825                             | 21100                                | 21375                              | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2507.5                            | 2535                                 | 2562.5                             |                           |
| 15              | QPSK       | 1       | 0         | 20.32                             | 20.31                                | 20.38                              | 21                        |
| 15              | QPSK       | 1       | 37        | 20.36                             | 20.33                                | 20.41                              |                           |
| 15              | QPSK       | 1       | 74        | 20.40                             | 20.38                                | 20.46                              |                           |
| 15              | QPSK       | 36      | 0         | 20.41                             | 20.38                                | 20.44                              | 21                        |
| 15              | QPSK       | 36      | 20        | 20.50                             | 20.43                                | 20.54                              |                           |
| 15              | QPSK       | 36      | 39        | 20.50                             | 20.52                                | 20.55                              |                           |
| 15              | QPSK       | 75      | 0         | 20.44                             | 20.36                                | 20.43                              | 21                        |
| 15              | 16QAM      | 1       | 0         | 20.67                             | 20.62                                | 20.71                              |                           |
| 15              | 16QAM      | 1       | 37        | 20.69                             | 20.71                                | 20.74                              |                           |
| 15              | 16QAM      | 1       | 74        | 20.69                             | 20.71                                | 20.76                              | 21                        |
| 15              | 16QAM      | 36      | 0         | 20.41                             | 20.41                                | 20.46                              |                           |
| 15              | 16QAM      | 36      | 20        | 20.50                             | 20.42                                | 20.55                              |                           |
| 15              | 16QAM      | 36      | 39        | 20.51                             | 20.51                                | 20.54                              | 21                        |
| 15              | 16QAM      | 75      | 0         | 20.44                             | 20.37                                | 20.45                              |                           |
| 15              | 64QAM      | 1       | 0         | 20.53                             | 20.51                                | 20.58                              |                           |
| 15              | 64QAM      | 1       | 37        | 20.58                             | 20.66                                | 20.65                              | 21                        |
| 15              | 64QAM      | 1       | 74        | 20.66                             | 20.68                                | 20.67                              |                           |
| 15              | 64QAM      | 36      | 0         | 20.44                             | 20.46                                | 20.51                              |                           |
| 15              | 64QAM      | 36      | 20        | 20.55                             | 20.48                                | 20.60                              | 21                        |
| 15              | 64QAM      | 36      | 39        | 20.55                             | 20.56                                | 20.61                              |                           |
| 15              | 64QAM      | 75      | 0         | 20.47                             | 20.41                                | 20.48                              |                           |
| Channel         |            |         |           | 20800                             | 21100                                | 21400                              | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2505                              | 2535                                 | 2565                               |                           |
| 10              | QPSK       | 1       | 0         | 20.14                             | 20.12                                | 20.15                              | 21                        |
| 10              | QPSK       | 1       | 25        | 20.14                             | 20.15                                | 20.19                              |                           |
| 10              | QPSK       | 1       | 49        | 20.16                             | 20.21                                | 20.21                              |                           |
| 10              | QPSK       | 25      | 0         | 20.15                             | 20.18                                | 20.18                              | 21                        |
| 10              | QPSK       | 25      | 12        | 20.28                             | 20.20                                | 20.32                              |                           |
| 10              | QPSK       | 25      | 25        | 20.25                             | 20.29                                | 20.32                              |                           |
| 10              | QPSK       | 50      | 0         | 20.21                             | 20.16                                | 20.25                              | 21                        |
| 10              | 16QAM      | 1       | 0         | 20.48                             | 20.54                                | 20.53                              |                           |
| 10              | 16QAM      | 1       | 25        | 20.52                             | 20.57                                | 20.58                              |                           |
| 10              | 16QAM      | 1       | 49        | 20.55                             | 20.60                                | 20.63                              | 21                        |
| 10              | 16QAM      | 25      | 0         | 20.17                             | 20.19                                | 20.23                              |                           |
| 10              | 16QAM      | 25      | 12        | 20.28                             | 20.25                                | 20.33                              |                           |
| 10              | 16QAM      | 25      | 25        | 20.24                             | 20.32                                | 20.31                              | 21                        |
| 10              | 16QAM      | 50      | 0         | 20.21                             | 20.17                                | 20.23                              |                           |
| 10              | 64QAM      | 1       | 0         | 20.35                             | 20.39                                | 20.38                              |                           |
| 10              | 64QAM      | 1       | 25        | 20.45                             | 20.48                                | 20.53                              | 21                        |
| 10              | 64QAM      | 1       | 49        | 20.47                             | 20.53                                | 20.53                              |                           |
| 10              | 64QAM      | 25      | 0         | 20.22                             | 20.22                                | 20.24                              |                           |
| 10              | 64QAM      | 25      | 12        | 20.32                             | 20.26                                | 20.41                              | 21                        |
| 10              | 64QAM      | 25      | 25        | 20.29                             | 20.34                                | 20.37                              |                           |
| 10              | 64QAM      | 50      | 0         | 20.23                             | 20.17                                | 20.31                              |                           |
| Channel         |            |         |           | 20775                             | 21100                                | 21425                              | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2502.5                            | 2535                                 | 2567.5                             |                           |
| 5               | QPSK       | 1       | 0         | 20.10                             | 20.13                                | 20.22                              | 21                        |
| 5               | QPSK       | 1       | 12        | 20.16                             | 20.22                                | 20.23                              |                           |
| 5               | QPSK       | 1       | 24        | 20.16                             | 20.26                                | 20.23                              |                           |
| 5               | QPSK       | 12      | 0         | 20.22                             | 20.20                                | 20.29                              | 21                        |
| 5               | QPSK       | 12      | 7         | 20.31                             | 20.23                                | 20.33                              |                           |
| 5               | QPSK       | 12      | 13        | 20.27                             | 20.28                                | 20.30                              |                           |
| 5               | QPSK       | 25      | 0         | 20.23                             | 20.23                                | 20.28                              | 21                        |
| 5               | 16QAM      | 1       | 0         | 20.42                             | 20.47                                | 20.59                              |                           |
| 5               | 16QAM      | 1       | 12        | 20.40                             | 20.56                                | 20.59                              |                           |
| 5               | 16QAM      | 1       | 24        | 20.51                             | 20.55                                | 20.58                              | 21                        |
| 5               | 16QAM      | 12      | 0         | 20.23                             | 20.28                                | 20.32                              |                           |
| 5               | 16QAM      | 12      | 7         | 20.29                             | 20.29                                | 20.35                              |                           |
| 5               | 16QAM      | 12      | 13        | 20.26                             | 20.28                                | 20.32                              | 21                        |
| 5               | 16QAM      | 25      | 0         | 20.25                             | 20.24                                | 20.33                              |                           |
| 5               | 64QAM      | 1       | 0         | 20.35                             | 20.46                                | 20.53                              |                           |
| 5               | 64QAM      | 1       | 12        | 20.37                             | 20.50                                | 20.44                              | 21                        |
| 5               | 64QAM      | 1       | 24        | 20.42                             | 20.49                                | 20.50                              |                           |
| 5               | 64QAM      | 12      | 0         | 20.31                             | 20.29                                | 20.38                              |                           |
| 5               | 64QAM      | 12      | 7         | 20.38                             | 20.33                                | 20.41                              | 21                        |
| 5               | 64QAM      | 12      | 13        | 20.29                             | 20.33                                | 20.36                              |                           |
| 5               | 64QAM      | 25      | 0         | 20.29                             | 20.26                                | 20.33                              |                           |



| Band 25_Ant 3   |            |         |           |                          |                             |                           |                        |  |  |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low Ch. / Freq. | Power<br>Middle Ch. / Freq. | Power<br>High Ch. / Freq. | Tune-up<br>limit (dBm) |  |  |
| Channel         |            |         |           | 26140                    | 26340                       | 26590                     |                        |  |  |
| Frequency (MHz) |            |         |           | 1860                     | 1880                        | 1905                      |                        |  |  |
| 20              | QPSK       | 1       | 0         | 21.88                    | 21.83                       | 21.85                     | 22.5                   |  |  |
| 20              | QPSK       | 1       | 49        | 21.74                    | 21.77                       | 21.79                     |                        |  |  |
| 20              | QPSK       | 1       | 99        | 21.71                    | 21.76                       | 21.71                     |                        |  |  |
| 20              | QPSK       | 50      | 0         | 21.92                    | 21.84                       | 21.89                     |                        |  |  |
| 20              | QPSK       | 50      | 24        | 21.90                    | 21.92                       | 21.86                     | 22.5                   |  |  |
| 20              | QPSK       | 50      | 50        | 21.83                    | 21.84                       | 21.87                     |                        |  |  |
| 20              | QPSK       | 100     | 0         | 21.81                    | 21.82                       | 21.88                     |                        |  |  |
| 20              | 16QAM      | 1       | 0         | 22.22                    | 22.14                       | 22.24                     |                        |  |  |
| 20              | 16QAM      | 1       | 49        | 22.10                    | 22.13                       | 22.18                     | 22.5                   |  |  |
| 20              | 16QAM      | 1       | 99        | 22.04                    | 22.08                       | 22.11                     |                        |  |  |
| 20              | 16QAM      | 50      | 0         | 21.42                    | 21.35                       | 21.40                     |                        |  |  |
| 20              | 16QAM      | 50      | 24        | 21.39                    | 21.41                       | 21.37                     |                        |  |  |
| 20              | 16QAM      | 50      | 50        | 21.36                    | 21.37                       | 21.39                     | 22                     |  |  |
| 20              | 16QAM      | 100     | 0         | 21.30                    | 21.32                       | 21.38                     |                        |  |  |
| 20              | 64QAM      | 1       | 0         | 21.65                    | 21.52                       | 21.60                     |                        |  |  |
| 20              | 64QAM      | 1       | 49        | 21.50                    | 21.52                       | 21.53                     |                        |  |  |
| 20              | 64QAM      | 1       | 99        | 21.47                    | 21.50                       | 21.51                     | 21                     |  |  |
| 20              | 64QAM      | 50      | 0         | 20.44                    | 20.36                       | 20.42                     |                        |  |  |
| 20              | 64QAM      | 50      | 24        | 20.42                    | 20.43                       | 20.40                     |                        |  |  |
| 20              | 64QAM      | 50      | 50        | 20.34                    | 20.38                       | 20.39                     |                        |  |  |
| 20              | 64QAM      | 100     | 0         | 20.32                    | 20.33                       | 20.40                     |                        |  |  |
| Channel         |            |         |           | 26115                    | 26340                       | 26615                     | Tune-up<br>limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1857.5                   | 1880                        | 1907.5                    |                        |  |  |
| 15              | QPSK       | 1       | 0         | 21.61                    | 21.80                       | 21.85                     | 22.5                   |  |  |
| 15              | QPSK       | 1       | 37        | 21.74                    | 21.76                       | 21.78                     |                        |  |  |
| 15              | QPSK       | 1       | 74        | 21.59                    | 21.76                       | 21.77                     |                        |  |  |
| 15              | QPSK       | 36      | 0         | 21.83                    | 21.74                       | 21.77                     |                        |  |  |
| 15              | QPSK       | 36      | 20        | 21.89                    | 21.92                       | 21.94                     | 22.5                   |  |  |
| 15              | QPSK       | 36      | 39        | 21.83                    | 21.84                       | 21.85                     |                        |  |  |
| 15              | QPSK       | 75      | 0         | 21.85                    | 21.81                       | 21.88                     |                        |  |  |
| 15              | 16QAM      | 1       | 0         | 21.93                    | 22.10                       | 22.18                     |                        |  |  |
| 15              | 16QAM      | 1       | 37        | 22.09                    | 22.10                       | 22.18                     | 22.5                   |  |  |
| 15              | 16QAM      | 1       | 74        | 21.95                    | 22.09                       | 22.12                     |                        |  |  |
| 15              | 16QAM      | 36      | 0         | 21.33                    | 21.25                       | 21.28                     |                        |  |  |
| 15              | 16QAM      | 36      | 20        | 21.39                    | 21.40                       | 21.42                     |                        |  |  |
| 15              | 16QAM      | 36      | 39        | 21.33                    | 21.35                       | 21.37                     | 22                     |  |  |
| 15              | 16QAM      | 75      | 0         | 21.34                    | 21.34                       | 21.38                     |                        |  |  |
| 15              | 64QAM      | 1       | 0         | 21.39                    | 21.50                       | 21.54                     |                        |  |  |
| 15              | 64QAM      | 1       | 37        | 21.49                    | 21.53                       | 21.55                     |                        |  |  |
| 15              | 64QAM      | 1       | 74        | 21.37                    | 21.50                       | 21.38                     | 21                     |  |  |
| 15              | 64QAM      | 36      | 0         | 20.37                    | 20.28                       | 20.35                     |                        |  |  |
| 15              | 64QAM      | 36      | 20        | 20.41                    | 20.41                       | 20.45                     |                        |  |  |
| 15              | 64QAM      | 36      | 39        | 20.35                    | 20.37                       | 20.41                     |                        |  |  |
| 15              | 64QAM      | 75      | 0         | 20.34                    | 20.35                       | 20.39                     |                        |  |  |
| Channel         |            |         |           | 26090                    | 26340                       | 26640                     | Tune-up<br>limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1855                     | 1880                        | 1910                      |                        |  |  |
| 10              | QPSK       | 1       | 0         | 21.34                    | 21.29                       | 21.56                     | 22.5                   |  |  |
| 10              | QPSK       | 1       | 25        | 21.51                    | 21.51                       | 21.51                     |                        |  |  |
| 10              | QPSK       | 1       | 49        | 21.24                    | 21.30                       | 21.50                     |                        |  |  |
| 10              | QPSK       | 25      | 0         | 21.59                    | 21.49                       | 21.54                     |                        |  |  |
| 10              | QPSK       | 25      | 12        | 21.68                    | 21.68                       | 21.70                     | 22.5                   |  |  |
| 10              | QPSK       | 25      | 25        | 21.58                    | 21.59                       | 21.62                     |                        |  |  |
| 10              | QPSK       | 50      | 0         | 21.60                    | 21.58                       | 21.62                     |                        |  |  |
| 10              | 16QAM      | 1       | 0         | 21.72                    | 21.69                       | 21.97                     |                        |  |  |
| 10              | 16QAM      | 1       | 25        | 21.90                    | 21.92                       | 21.92                     | 22.5                   |  |  |
| 10              | 16QAM      | 1       | 49        | 21.66                    | 21.67                       | 21.92                     |                        |  |  |
| 10              | 16QAM      | 25      | 0         | 21.09                    | 21.00                       | 21.03                     |                        |  |  |
| 10              | 16QAM      | 25      | 12        | 21.18                    | 21.16                       | 21.18                     |                        |  |  |
| 10              | 16QAM      | 25      | 25        | 21.09                    | 21.10                       | 21.10                     | 22                     |  |  |
| 10              | 16QAM      | 50      | 0         | 21.09                    | 21.09                       | 21.13                     |                        |  |  |
| 10              | 64QAM      | 1       | 0         | 21.09                    | 20.97                       | 21.26                     |                        |  |  |
| 10              | 64QAM      | 1       | 25        | 21.31                    | 21.31                       | 21.33                     |                        |  |  |
| 10              | 64QAM      | 1       | 49        | 21.00                    | 21.04                       | 21.15                     | 21                     |  |  |
| 10              | 64QAM      | 25      | 0         | 20.11                    | 20.00                       | 20.05                     |                        |  |  |
| 10              | 64QAM      | 25      | 12        | 20.19                    | 20.19                       | 20.24                     |                        |  |  |
| 10              | 64QAM      | 25      | 25        | 20.11                    | 20.11                       | 20.14                     |                        |  |  |
| 10              | 64QAM      | 50      | 0         | 20.15                    | 20.12                       | 20.15                     |                        |  |  |
| Channel         |            |         |           | 26095                    | 26340                       | 26695                     | Tune-up<br>limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1852.5                   | 1880                        | 1912.5                    |                        |  |  |
| 5               | QPSK       | 1       | 0         | 21.55                    | 21.43                       | 21.51                     | 22.5                   |  |  |
| 5               | QPSK       | 1       | 12        | 21.55                    | 21.50                       | 21.59                     |                        |  |  |
| 5               | QPSK       | 1       | 24        | 21.55                    | 21.57                       | 21.58                     |                        |  |  |
| 5               | QPSK       | 12      | 0         | 21.66                    | 21.55                       | 21.56                     |                        |  |  |
| 5               | QPSK       | 12      | 7         | 21.65                    | 21.63                       | 21.67                     | 22.5                   |  |  |
| 5               | QPSK       | 12      | 13        | 21.64                    | 21.68                       | 21.66                     |                        |  |  |
| 5               | QPSK       | 25      | 0         | 21.65                    | 21.61                       | 21.65                     |                        |  |  |
| 5               | 16QAM      | 1       | 0         | 21.88                    | 21.80                       | 21.85                     |                        |  |  |
| 5               | 16QAM      | 1       | 12        | 21.87                    | 21.84                       | 21.89                     | 22.5                   |  |  |
| 5               | 16QAM      | 1       | 24        | 21.89                    | 21.90                       | 21.90                     |                        |  |  |
| 5               | 16QAM      | 12      | 0         | 21.15                    | 21.05                       | 21.10                     |                        |  |  |
| 5               | 16QAM      | 12      | 7         | 21.19                    | 21.15                       | 21.16                     |                        |  |  |
| 5               | 16QAM      | 12      | 13        | 21.15                    | 21.13                       | 21.17                     | 22                     |  |  |
| 5               | 16QAM      | 25      | 0         | 21.16                    | 21.11                       | 21.15                     |                        |  |  |
| 5               | 64QAM      | 1       | 0         | 21.32                    | 21.21                       | 21.22                     |                        |  |  |
| 5               | 64QAM      | 1       | 12        | 21.28                    | 21.27                       | 21.28                     |                        |  |  |
| 5               | 64QAM      | 1       | 24        | 21.30                    | 21.28                       | 21.31                     | 21                     |  |  |
| 5               | 64QAM      | 12      | 0         | 20.23                    | 20.11                       | 20.14                     |                        |  |  |
| 5               | 64QAM      | 12      | 7         | 20.25                    | 20.23                       | 20.22                     |                        |  |  |
| 5               | 64QAM      | 12      | 13        | 20.20                    | 20.21                       | 20.23                     |                        |  |  |
| 5               | 64QAM      | 25      | 0         | 20.18                    | 20.15                       | 20.17                     |                        |  |  |
| Channel         |            |         |           | 26095                    | 26340                       | 26695                     | Tune-up<br>limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1851.5                   | 1880                        | 1913.5                    |                        |  |  |
| 3               | QPSK       | 1       | 0         | 21.52                    | 21.43                       | 21.50                     | 22.5                   |  |  |
| 3               | QPSK       | 1       | 8         | 21.63                    | 21.58                       | 21.57                     |                        |  |  |
| 3               | QPSK       | 1       | 14        | 21.59                    | 21.55                       | 21.57                     |                        |  |  |
| 3               | QPSK       | 8       | 0         | 21.66                    | 21.55                       | 21.56                     |                        |  |  |
| 3               | QPSK       | 8       | 4         | 21.65                    | 21.67                       | 21.61                     | 22.5                   |  |  |
| 3               | QPSK       | 8       | 7         | 21.64                    | 21.60                       | 21.65                     |                        |  |  |
| 3               | QPSK       | 15      | 0         | 21.63                    | 21.59                       | 21.58                     |                        |  |  |
| 3               | 16QAM      | 1       | 0         | 21.89                    | 21.77                       | 21.79                     |                        |  |  |
| 3               | 16QAM      | 1       | 8         | 22.01                    | 21.93                       | 21.95                     | 22.5                   |  |  |
| 3               | 16QAM      | 1       | 14        | 21.93                    | 21.93                       | 21.93                     |                        |  |  |
| 3               | 16QAM      | 8       | 0         | 21.20                    | 21.10                       | 21.12                     |                        |  |  |
| 3               | 16QAM      | 8       | 4         | 21.21                    | 21.19                       | 21.16                     |                        |  |  |
| 3               | 16QAM      | 8       | 7         | 21.21                    | 21.19                       | 21.22                     | 22                     |  |  |
| 3               | 16QAM      | 15      | 0         | 21.17                    | 21.11                       | 21.09                     |                        |  |  |
| 3               | 64QAM      | 1       | 0         | 21.26                    | 21.20                       | 21.20                     |                        |  |  |
| 3               | 64QAM      | 1       | 8         | 21.40                    | 21.31                       | 21.34                     |                        |  |  |
| 3               | 64QAM      | 1       | 14        | 21.32                    | 21.34                       | 21.32                     | 21                     |  |  |
| 3               | 64QAM      | 8       | 0         | 20.21                    | 20.09                       | 20.13                     |                        |  |  |
| 3               | 64QAM      | 8       | 4         | 20.20                    | 20.19                       | 20.17                     |                        |  |  |
| 3               | 64QAM      | 8       | 7         | 20.19                    | 20.18                       | 20.20                     |                        |  |  |
| 3               | 64QAM      | 15      | 0         | 20.19                    | 20.13                       | 20.11                     |                        |  |  |
| Channel         |            |         |           | 26047                    | 26340                       | 26683                     | Tune-up<br>limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1850.7                   | 1880                        | 1914.3                    |                        |  |  |
| 1.4             | QPSK       | 1       | 0         | 21.46                    | 21.40                       | 21.41                     | 22.5                   |  |  |
| 1.4             | QPSK       | 1       | 3         | 21.54                    | 21.51                       | 21.54                     |                        |  |  |
| 1.4             | QPSK       | 1       | 5         | 21.50                    | 21.44                       | 21.45                     |                        |  |  |
| 1.4             | QPSK       | 3       | 0         | 21.50                    | 21.46                       | 21.40                     |                        |  |  |
| 1.4             | QPSK       | 3       | 1         | 21.54                    | 21.52                       | 21.44                     | 22.5                   |  |  |
| 1.4             | QPSK       | 3       | 3         | 21.52                    | 21.49                       | 21.50                     |                        |  |  |
| 1.4             | QPSK       | 6       | 0         | 21.57                    | 21.52                       | 21.50                     |                        |  |  |
| 1.4             | 16QAM      | 1       | 0         | 21.86                    | 21.76                       | 21.74                     |                        |  |  |
| 1.4             | 16QAM      | 1       | 2         | 21.90                    | 21.85                       | 21.89                     | 22.5                   |  |  |
| 1.4             | 16QAM      | 1       | 5         | 21.85                    | 21.77                       | 21.84                     |                        |  |  |
| 1.4             | 16QAM      | 3       | 0         | 21.63                    | 21.59                       | 21.54                     |                        |  |  |
| 1.4             | 16QAM      | 3       | 1         | 21.68                    | 21.64                       | 21.58                     |                        |  |  |
| 1.4             | 16QAM      | 3       | 3         | 21.62                    | 21.58                       | 21.61                     | 22                     |  |  |
| 1.4             | 16QAM      | 3       | 5         | 21.76                    | 21.71                       | 21.68                     |                        |  |  |
| 1.4             | 16QAM      | 3       | 7         | 21.28                    | 21.18                       | 21.13                     |                        |  |  |
| 1.4             | 64QAM      | 1       | 3         | 21.28                    | 21.27                       | 21.28                     |                        |  |  |
| 1.4             | 64QAM      | 1       | 5         | 21.24                    | 21.22                       | 21.23                     | 22                     |  |  |
| 1.4             | 64QAM      | 3       | 0         | 21.20                    | 21.18                       | 21.14                     |                        |  |  |
| 1.4             | 64QAM      | 3       | 1         | 21.27                    | 21.21                       | 21.18                     |                        |  |  |
| 1.4             | 64QAM      | 3       | 2         | 21.28                    | 21.19                       | 21.19                     |                        |  |  |
| 1.4             | 64QAM      | 3       | 5         | 20.77                    | 20.07                       | 20.02                     |                        |  |  |







| Band 2_Ant 3    |            |         |           |                           |                              |                            |                     |
|-----------------|------------|---------|-----------|---------------------------|------------------------------|----------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq. 18700 | Power Middle Ch. Freq. 18800 | Power High Ch. Freq. 19100 | Tune-up limit (dBm) |
| Channel         |            |         |           | 1860                      | 1880                         | 1900                       |                     |
| Frequency (MHz) |            |         |           | 1860                      | 1880                         | 1900                       |                     |
| 20              | QPSK       | 1       | 0         | 19.69                     | 19.62                        | 19.68                      | 20.5                |
| 20              | QPSK       | 1       | 49        | 19.56                     | 19.59                        | 19.61                      |                     |
| 20              | QPSK       | 1       | 99        | 19.51                     | 19.58                        | 19.58                      | 20.5                |
| 20              | QPSK       | 50      | 0         | 19.67                     | 19.60                        | 19.63                      |                     |
| 20              | QPSK       | 50      | 24        | 19.74                     | 19.77                        | 19.74                      | 20.5                |
| 20              | QPSK       | 50      | 50        | 19.68                     | 19.72                        | 19.75                      |                     |
| 20              | QPSK       | 100     | 0         | 19.68                     | 19.71                        | 19.66                      | 20.5                |
| 20              | 16QAM      | 1       | 0         | 20.05                     | 19.97                        | 20.01                      |                     |
| 20              | 16QAM      | 1       | 49        | 19.93                     | 19.96                        | 20.01                      | 20.5                |
| 20              | 16QAM      | 1       | 99        | 19.90                     | 19.93                        | 19.96                      |                     |
| 20              | 16QAM      | 50      | 0         | 19.69                     | 19.62                        | 19.64                      | 20.5                |
| 20              | 16QAM      | 50      | 24        | 19.75                     | 19.78                        | 19.75                      |                     |
| 20              | 16QAM      | 50      | 50        | 19.70                     | 19.74                        | 19.77                      | 20.5                |
| 20              | 16QAM      | 100     | 0         | 19.69                     | 19.71                        | 19.67                      |                     |
| 20              | 64QAM      | 1       | 0         | 19.95                     | 19.84                        | 19.92                      | 20.5                |
| 20              | 64QAM      | 1       | 49        | 19.80                     | 19.83                        | 19.88                      |                     |
| 20              | 64QAM      | 1       | 99        | 19.78                     | 19.83                        | 19.83                      | 20.5                |
| 20              | 64QAM      | 50      | 0         | 19.68                     | 19.62                        | 19.69                      |                     |
| 20              | 64QAM      | 50      | 24        | 19.75                     | 19.77                        | 19.78                      | 20.5                |
| 20              | 64QAM      | 50      | 50        | 19.69                     | 19.73                        | 19.81                      |                     |
| 20              | 64QAM      | 100     | 0         | 19.69                     | 19.71                        | 19.72                      |                     |
| Channel         |            |         |           | 1867.5                    | 18900                        | 19125                      |                     |
| Frequency (MHz) |            |         |           | 1857.5                    | 1880                         | 1902.5                     |                     |
| 15              | QPSK       | 1       | 0         | 19.54                     | 19.66                        | 19.71                      |                     |
| 15              | QPSK       | 1       | 37        | 19.58                     | 19.61                        | 19.66                      | 20.5                |
| 15              | QPSK       | 1       | 74        | 19.53                     | 19.63                        | 19.63                      |                     |
| 15              | QPSK       | 36      | 0         | 19.71                     | 19.64                        | 19.68                      | 20.5                |
| 15              | QPSK       | 36      | 20        | 19.78                     | 19.79                        | 19.83                      |                     |
| 15              | QPSK       | 36      | 39        | 19.72                     | 19.76                        | 19.78                      | 20.5                |
| 15              | QPSK       | 75      | 0         | 19.73                     | 19.74                        | 19.69                      |                     |
| 15              | 16QAM      | 1       | 0         | 19.87                     | 20.00                        | 20.03                      | 20.5                |
| 15              | 16QAM      | 1       | 37        | 19.95                     | 19.98                        | 20.00                      |                     |
| 15              | 16QAM      | 1       | 74        | 19.87                     | 19.97                        | 19.98                      | 20.5                |
| 15              | 16QAM      | 36      | 0         | 19.73                     | 19.84                        | 19.70                      |                     |
| 15              | 16QAM      | 36      | 20        | 19.76                     | 19.79                        | 19.82                      | 20.5                |
| 15              | 16QAM      | 36      | 39        | 19.72                     | 19.77                        | 19.80                      |                     |
| 15              | 16QAM      | 75      | 0         | 19.74                     | 19.75                        | 19.75                      | 20.5                |
| 15              | 64QAM      | 1       | 0         | 19.77                     | 19.80                        | 19.80                      |                     |
| 15              | 64QAM      | 1       | 37        | 19.83                     | 19.87                        | 19.85                      | 20.5                |
| 15              | 64QAM      | 1       | 74        | 19.75                     | 19.85                        | 19.87                      |                     |
| 15              | 64QAM      | 36      | 0         | 19.74                     | 19.68                        | 19.74                      | 20.5                |
| 15              | 64QAM      | 36      | 20        | 19.80                     | 19.79                        | 19.88                      |                     |
| 15              | 64QAM      | 36      | 39        | 19.75                     | 19.78                        | 19.85                      | 20.5                |
| 15              | 64QAM      | 75      | 0         | 19.73                     | 19.73                        | 19.74                      |                     |
| Channel         |            |         |           | 18650                     | 18900                        | 19150                      |                     |
| Frequency (MHz) |            |         |           | 1855                      | 1880                         | 1905                       |                     |
| 10              | QPSK       | 1       | 0         | 19.22                     | 19.20                        | 19.59                      | 20.5                |
| 10              | QPSK       | 1       | 25        | 19.50                     | 19.51                        | 19.51                      |                     |
| 10              | QPSK       | 1       | 49        | 19.22                     | 19.24                        | 19.48                      | 20.5                |
| 10              | QPSK       | 25      | 0         | 19.55                     | 19.47                        | 19.50                      |                     |
| 10              | QPSK       | 25      | 12        | 19.62                     | 19.62                        | 19.60                      | 20.5                |
| 10              | QPSK       | 25      | 25        | 19.50                     | 19.51                        | 19.53                      |                     |
| 10              | QPSK       | 50      | 0         | 19.53                     | 19.54                        | 19.50                      | 20.5                |
| 10              | 16QAM      | 1       | 0         | 19.60                     | 19.54                        | 19.86                      |                     |
| 10              | 16QAM      | 1       | 25        | 19.86                     | 19.90                        | 19.91                      | 20.5                |
| 10              | 16QAM      | 1       | 49        | 19.60                     | 19.62                        | 19.86                      |                     |
| 10              | 16QAM      | 25      | 0         | 19.55                     | 19.47                        | 19.50                      | 20.5                |
| 10              | 16QAM      | 25      | 12        | 19.63                     | 19.65                        | 19.59                      |                     |
| 10              | 16QAM      | 25      | 25        | 19.50                     | 19.53                        | 19.53                      | 20.5                |
| 10              | 16QAM      | 50      | 0         | 19.55                     | 19.54                        | 19.53                      |                     |
| 10              | 64QAM      | 1       | 0         | 19.49                     | 19.39                        | 19.82                      | 20.5                |
| 10              | 64QAM      | 1       | 25        | 19.82                     | 19.83                        | 19.81                      |                     |
| 10              | 64QAM      | 1       | 49        | 19.51                     | 19.54                        | 19.76                      | 20.5                |
| 10              | 64QAM      | 25      | 0         | 19.61                     | 19.51                        | 19.56                      |                     |
| 10              | 64QAM      | 25      | 12        | 19.70                     | 19.69                        | 19.64                      | 20.5                |
| 10              | 64QAM      | 25      | 25        | 19.55                     | 19.55                        | 19.55                      |                     |
| 10              | 64QAM      | 50      | 0         | 19.59                     | 19.56                        | 19.53                      |                     |
| Channel         |            |         |           | 18625                     | 18900                        | 19175                      |                     |
| Frequency (MHz) |            |         |           | 1852.5                    | 1880                         | 1907.5                     |                     |
| 5               | QPSK       | 1       | 0         | 19.53                     | 19.45                        | 19.49                      |                     |
| 5               | QPSK       | 1       | 12        | 19.60                     | 19.57                        | 19.59                      | 20.5                |
| 5               | QPSK       | 1       | 24        | 19.44                     | 19.44                        | 19.47                      |                     |
| 5               | QPSK       | 12      | 0         | 19.67                     | 19.57                        | 19.64                      | 20.5                |
| 5               | QPSK       | 12      | 7         | 19.71                     | 19.67                        | 19.65                      |                     |
| 5               | QPSK       | 12      | 13        | 19.58                     | 19.57                        | 19.59                      | 20.5                |
| 5               | QPSK       | 25      | 0         | 19.61                     | 19.62                        | 19.58                      |                     |
| 5               | 16QAM      | 1       | 0         | 19.88                     | 19.77                        | 19.80                      | 20.5                |
| 5               | 16QAM      | 1       | 12        | 19.87                     | 19.82                        | 19.85                      |                     |
| 5               | 16QAM      | 1       | 24        | 19.79                     | 19.77                        | 19.75                      | 20.5                |
| 5               | 16QAM      | 12      | 0         | 19.68                     | 19.61                        | 19.62                      |                     |
| 5               | 16QAM      | 12      | 7         | 19.69                     | 19.68                        | 19.63                      | 20.5                |
| 5               | 16QAM      | 12      | 13        | 19.60                     | 19.58                        | 19.59                      |                     |
| 5               | 16QAM      | 25      | 0         | 19.64                     | 19.63                        | 19.59                      | 20.5                |
| 5               | 64QAM      | 1       | 0         | 19.81                     | 19.69                        | 19.73                      |                     |
| 5               | 64QAM      | 1       | 12        | 19.79                     | 19.77                        | 19.73                      | 20.5                |
| 5               | 64QAM      | 1       | 24        | 19.70                     | 19.67                        | 19.63                      |                     |
| 5               | 64QAM      | 12      | 0         | 19.74                     | 19.67                        | 19.69                      | 20.5                |
| 5               | 64QAM      | 12      | 7         | 19.76                     | 19.74                        | 19.71                      |                     |
| 5               | 64QAM      | 12      | 13        | 19.67                     | 19.65                        | 19.65                      | 20.5                |
| 5               | 64QAM      | 25      | 0         | 19.68                     | 19.65                        | 19.59                      |                     |
| Channel         |            |         |           | 18615                     | 18900                        | 19185                      |                     |
| Frequency (MHz) |            |         |           | 1851.5                    | 1880                         | 1906.5                     |                     |
| 3               | QPSK       | 1       | 0         | 19.49                     | 19.40                        | 19.42                      | 20.5                |
| 3               | QPSK       | 1       | 8         | 19.51                     | 19.55                        | 19.59                      |                     |
| 3               | QPSK       | 1       | 14        | 19.35                     | 19.44                        | 19.47                      | 20.5                |
| 3               | QPSK       | 8       | 0         | 19.89                     | 19.51                        | 19.67                      |                     |
| 3               | QPSK       | 8       | 4         | 19.81                     | 19.76                        | 19.72                      | 20.5                |
| 3               | QPSK       | 8       | 7         | 19.59                     | 19.67                        | 19.53                      |                     |
| 3               | QPSK       | 15      | 0         | 19.65                     | 19.54                        | 19.65                      | 20.5                |
| 3               | 16QAM      | 1       | 0         | 19.94                     | 19.83                        | 19.87                      |                     |
| 3               | 16QAM      | 1       | 8         | 19.97                     | 19.81                        | 19.84                      | 20.5                |
| 3               | 16QAM      | 1       | 14        | 19.80                     | 19.82                        | 19.76                      |                     |
| 3               | 16QAM      | 8       | 0         | 19.75                     | 19.58                        | 19.54                      | 20.5                |
| 3               | 16QAM      | 8       | 4         | 19.73                     | 19.59                        | 19.58                      |                     |
| 3               | 16QAM      | 8       | 7         | 19.68                     | 19.56                        | 19.53                      | 20.5                |
| 3               | 16QAM      | 15      | 0         | 19.69                     | 19.63                        | 19.59                      |                     |
| 3               | 64QAM      | 1       | 0         | 19.75                     | 19.74                        | 19.73                      | 20.5                |
| 3               | 64QAM      | 1       | 8         | 19.86                     | 19.83                        | 19.71                      |                     |
| 3               | 64QAM      | 1       | 14        | 19.68                     | 19.75                        | 19.71                      | 20.5                |
| 3               | 64QAM      | 8       | 0         | 19.64                     | 19.63                        | 19.71                      |                     |
| 3               | 64QAM      | 8       | 4         | 19.72                     | 19.75                        | 19.75                      | 20.5                |
| 3               | 64QAM      | 8       | 7         | 19.70                     | 19.59                        | 19.62                      |                     |
| 3               | 64QAM      | 15      | 0         | 19.62                     | 19.75                        | 19.64                      |                     |
| Channel         |            |         |           | 18607                     | 18900                        | 19193                      |                     |
| Frequency (MHz) |            |         |           | 1850.7                    | 1880                         | 1906.3                     |                     |
| 1.4             | QPSK       | 1       | 0         | 19.51                     | 19.49                        | 19.49                      | 20.5                |
| 1.4             | QPSK       | 1       | 3         | 19.56                     | 19.53                        | 19.52                      |                     |
| 1.4             | QPSK       | 1       | 5         | 19.45                     | 19.45                        | 19.40                      | 20.5                |
| 1.4             | QPSK       | 3       | 0         | 19.53                     | 19.52                        | 19.46                      |                     |
| 1.4             | QPSK       | 3       | 1         | 19.56                     | 19.54                        | 19.49                      | 20.5                |
| 1.4             | QPSK       | 3       | 3         | 19.51                     | 19.48                        | 19.46                      |                     |
| 1.4             | QPSK       | 6       | 0         | 19.59                     | 19.57                        | 19.56                      | 20.5                |
| 1.4             | 16QAM      | 1       | 0         | 19.85                     | 19.81                        | 19.80                      |                     |
| 1.4             | 16QAM      | 1       | 3         | 19.88                     | 19.87                        | 19.85                      | 20.5                |
| 1.4             | 16QAM      | 1       | 5         | 19.79                     | 19.75                        | 19.74                      |                     |
| 1.4             | 16QAM      | 3       | 0         | 19.64                     | 19.60                        | 19.56                      | 20.5                |
| 1.4             | 16QAM      | 3       | 1         | 19.64                     | 19.64                        | 19.58                      |                     |
| 1.4             | 16QAM      | 3       | 3         | 19.58                     | 19.54                        | 19.50                      | 20.5                |
| 1.4             | 16QAM      | 6       | 0         | 19.72                     | 19.66                        | 19.66                      |                     |
| 1.4             | 64QAM      | 1       | 0         | 19.79                     | 19.77                        | 19.71                      | 20.5                |
| 1.4             | 64QAM      | 1       | 3         | 19.81                     | 19.77                        | 19.74                      |                     |
| 1.4             | 64QAM      | 1       | 5         | 19.71                     | 19.67                        | 19.67                      | 20.5                |
| 1.4             | 64QAM      | 3       | 0         | 19.77                     | 19.73                        | 19.68                      |                     |
| 1.4             | 64QAM      | 3       | 1         | 19.80                     | 19.78                        | 19.75                      | 20.5                |
| 1.4             | 64QAM      | 3       | 3         | 19.73                     | 19.69                        | 19.67                      |                     |
| 1.4             | 64QAM      | 6       | 0         | 19.64                     | 19.61                        | 19.57                      | 20.5                |



| Band 5_Ant 1    |            |         |           |                             |                                |                              |                     |  |  |  |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 20450 | Power Middle Ch. / Freq. 20525 | Power High Ch. / Freq. 20600 | Tune-up limit (dBm) |  |  |  |
| Channel         |            |         |           | 829                         | 836.5                          | 844                          |                     |  |  |  |
| Frequency (MHz) |            |         |           | 21.05                       | 21.08                          | 21.10                        |                     |  |  |  |
| 10              | QPSK       | 1       | 0         | 21.05                       | 21.08                          | 21.10                        | 22                  |  |  |  |
| 10              | QPSK       | 1       | 25        | 21.01                       | 21.04                          | 21.05                        |                     |  |  |  |
| 10              | QPSK       | 1       | 49        | 20.99                       | 21.04                          | 20.99                        |                     |  |  |  |
| 10              | QPSK       | 25      | 0         | 21.08                       | 21.10                          | 21.11                        | 22                  |  |  |  |
| 10              | QPSK       | 25      | 12        | 21.18                       | 21.17                          | 21.12                        |                     |  |  |  |
| 10              | QPSK       | 25      | 25        | 21.13                       | 21.12                          | 21.14                        |                     |  |  |  |
| 10              | QPSK       | 50      | 0         | 21.10                       | 21.10                          | 21.02                        | 22                  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 21.39                       | 21.40                          | 21.45                        |                     |  |  |  |
| 10              | 16QAM      | 1       | 25        | 21.40                       | 21.41                          | 21.43                        |                     |  |  |  |
| 10              | 16QAM      | 1       | 49        | 21.37                       | 21.38                          | 21.37                        | 22                  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 21.08                       | 21.10                          | 21.10                        |                     |  |  |  |
| 10              | 16QAM      | 25      | 12        | 21.18                       | 21.19                          | 21.12                        |                     |  |  |  |
| 10              | 16QAM      | 25      | 25        | 21.14                       | 21.12                          | 21.13                        | 22                  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 21.08                       | 21.09                          | 21.01                        |                     |  |  |  |
| 10              | 64QAM      | 1       | 0         | 21.26                       | 21.27                          | 21.31                        |                     |  |  |  |
| 10              | 64QAM      | 1       | 25        | 21.35                       | 21.32                          | 21.37                        | 22                  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 21.29                       | 21.28                          | 21.26                        |                     |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.14                       | 21.14                          | 21.15                        |                     |  |  |  |
| 10              | 64QAM      | 25      | 12        | 21.23                       | 21.23                          | 21.18                        | 22                  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 21.20                       | 21.17                          | 21.17                        |                     |  |  |  |
| 10              | 64QAM      | 50      | 0         | 21.12                       | 21.12                          | 21.04                        |                     |  |  |  |
| Channel         |            |         |           | 20425                       | 20525                          | 20625                        | Tune-up limit (dBm) |  |  |  |
| Frequency (MHz) |            |         |           | 826.5                       | 836.5                          | 846.5                        |                     |  |  |  |
| 5               | QPSK       | 1       | 0         | 20.98                       | 20.99                          | 20.95                        | 22                  |  |  |  |
| 5               | QPSK       | 1       | 12        | 21.09                       | 21.12                          | 21.12                        |                     |  |  |  |
| 5               | QPSK       | 1       | 24        | 21.04                       | 21.03                          | 20.97                        |                     |  |  |  |
| 5               | QPSK       | 12      | 0         | 21.10                       | 21.07                          | 21.08                        | 22                  |  |  |  |
| 5               | QPSK       | 12      | 7         | 21.19                       | 21.18                          | 21.18                        |                     |  |  |  |
| 5               | QPSK       | 12      | 13        | 21.15                       | 21.16                          | 21.13                        |                     |  |  |  |
| 5               | QPSK       | 25      | 0         | 21.14                       | 21.15                          | 21.14                        | 22                  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 21.26                       | 21.30                          | 21.26                        |                     |  |  |  |
| 5               | 16QAM      | 1       | 12        | 21.30                       | 21.37                          | 21.34                        |                     |  |  |  |
| 5               | 16QAM      | 1       | 24        | 21.35                       | 21.35                          | 21.29                        | 22                  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 21.07                       | 21.09                          | 21.08                        |                     |  |  |  |
| 5               | 16QAM      | 12      | 7         | 21.18                       | 21.17                          | 21.18                        |                     |  |  |  |
| 5               | 16QAM      | 12      | 13        | 21.14                       | 21.16                          | 21.12                        | 22                  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 21.14                       | 21.15                          | 21.12                        |                     |  |  |  |
| 5               | 64QAM      | 1       | 0         | 21.22                       | 21.21                          | 21.20                        |                     |  |  |  |
| 5               | 64QAM      | 1       | 12        | 21.26                       | 21.30                          | 21.28                        | 22                  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 21.25                       | 21.28                          | 21.20                        |                     |  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.15                       | 21.16                          | 21.16                        |                     |  |  |  |
| 5               | 64QAM      | 12      | 7         | 21.26                       | 21.27                          | 21.25                        | 22                  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 21.23                       | 21.22                          | 21.20                        |                     |  |  |  |
| 5               | 64QAM      | 25      | 0         | 21.18                       | 21.18                          | 21.16                        |                     |  |  |  |
| Channel         |            |         |           | 20415                       | 20525                          | 20635                        | Tune-up limit (dBm) |  |  |  |
| Frequency (MHz) |            |         |           | 825.5                       | 836.5                          | 847.5                        |                     |  |  |  |
| 3               | QPSK       | 1       | 0         | 20.98                       | 21.01                          | 21.00                        | 22                  |  |  |  |
| 3               | QPSK       | 1       | 8         | 21.11                       | 21.14                          | 21.13                        |                     |  |  |  |
| 3               | QPSK       | 1       | 14        | 21.04                       | 21.06                          | 21.02                        |                     |  |  |  |
| 3               | QPSK       | 8       | 0         | 21.08                       | 21.09                          | 21.08                        | 22                  |  |  |  |
| 3               | QPSK       | 8       | 4         | 21.18                       | 21.17                          | 21.18                        |                     |  |  |  |
| 3               | QPSK       | 8       | 7         | 21.14                       | 21.15                          | 21.13                        |                     |  |  |  |
| 3               | QPSK       | 15      | 0         | 21.15                       | 21.16                          | 21.09                        | 22                  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 21.32                       | 21.30                          | 21.33                        |                     |  |  |  |
| 3               | 16QAM      | 1       | 8         | 21.38                       | 21.44                          | 21.42                        |                     |  |  |  |
| 3               | 16QAM      | 1       | 14        | 21.36                       | 21.37                          | 21.33                        | 22                  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 21.13                       | 21.13                          | 21.12                        |                     |  |  |  |
| 3               | 16QAM      | 8       | 4         | 21.23                       | 21.25                          | 21.20                        |                     |  |  |  |
| 3               | 16QAM      | 8       | 7         | 21.19                       | 21.20                          | 21.16                        | 22                  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 21.18                       | 21.17                          | 21.06                        |                     |  |  |  |
| 3               | 64QAM      | 1       | 0         | 21.18                       | 21.22                          | 21.21                        |                     |  |  |  |
| 3               | 64QAM      | 1       | 8         | 21.32                       | 21.37                          | 21.33                        | 22                  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 21.24                       | 21.32                          | 21.24                        |                     |  |  |  |
| 3               | 64QAM      | 8       | 0         | 21.16                       | 21.18                          | 21.18                        |                     |  |  |  |
| 3               | 64QAM      | 8       | 4         | 21.24                       | 21.25                          | 21.25                        | 22                  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 21.21                       | 21.25                          | 21.20                        |                     |  |  |  |
| 3               | 64QAM      | 15      | 0         | 21.19                       | 21.18                          | 21.11                        |                     |  |  |  |
| Channel         |            |         |           | 20407                       | 20525                          | 20643                        | Tune-up limit (dBm) |  |  |  |
| Frequency (MHz) |            |         |           | 824.7                       | 836.5                          | 848.3                        |                     |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 20.92                       | 20.99                          | 20.97                        | 22                  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 21.05                       | 21.08                          | 21.04                        |                     |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 20.98                       | 20.98                          | 20.96                        |                     |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 20.96                       | 21.03                          | 20.95                        | 22                  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 21.02                       | 21.04                          | 20.99                        |                     |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 20.99                       | 21.01                          | 20.99                        |                     |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 21.08                       | 21.07                          | 21.04                        | 22                  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 21.21                       | 21.32                          | 21.28                        |                     |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 21.35                       | 21.37                          | 21.34                        |                     |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 21.30                       | 21.29                          | 21.23                        | 22                  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 21.06                       | 21.09                          | 21.06                        |                     |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 21.11                       | 21.12                          | 21.10                        |                     |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 21.05                       | 21.10                          | 21.04                        | 22                  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 21.14                       | 21.16                          | 21.12                        |                     |  |  |  |
| 1.4             | 64QAM      | 1       | 0         | 21.18                       | 21.22                          | 21.19                        |                     |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 21.24                       | 21.28                          | 21.21                        | 22                  |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 21.19                       | 21.23                          | 21.18                        |                     |  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 21.19                       | 21.22                          | 21.17                        |                     |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 21.25                       | 21.28                          | 21.25                        | 22                  |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 21.19                       | 21.22                          | 21.18                        |                     |  |  |  |
| 1.4             | 64QAM      | 6       | 0         | 21.10                       | 21.10                          | 21.07                        |                     |  |  |  |



| Band 7_Ant 3    |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 20850                 | 21100                    | 21350                  |                     |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   |                     |
| 20              | QPSK       | 1       | 0         | 17.80                 | 17.77                    | 17.85                  | 18.5                |
| 20              | QPSK       | 1       | 49        | 17.83                 | 17.84                    | 17.89                  |                     |
| 20              | QPSK       | 1       | 99        | 17.91                 | 17.91                    | 17.96                  |                     |
| 20              | QPSK       | 50      | 0         | 17.93                 | 17.99                    | 17.97                  | 18.5                |
| 20              | QPSK       | 50      | 24        | 18.03                 | 17.99                    | 18.04                  |                     |
| 20              | QPSK       | 50      | 50        | 18.02                 | 18.04                    | 18.12                  |                     |
| 20              | QPSK       | 100     | 0         | 17.93                 | 17.86                    | 17.88                  | 18.5                |
| 20              | 16QAM      | 1       | 0         | 18.15                 | 18.10                    | 18.19                  |                     |
| 20              | 16QAM      | 1       | 49        | 18.21                 | 18.17                    | 18.22                  |                     |
| 20              | 16QAM      | 1       | 99        | 18.25                 | 18.20                    | 18.28                  | 18.5                |
| 20              | 16QAM      | 50      | 0         | 17.89                 | 17.93                    | 17.95                  |                     |
| 20              | 16QAM      | 50      | 24        | 18.02                 | 17.96                    | 17.99                  |                     |
| 20              | 16QAM      | 50      | 50        | 18.03                 | 18.03                    | 18.07                  | 18.5                |
| 20              | 16QAM      | 100     | 0         | 17.93                 | 17.82                    | 17.89                  |                     |
| 20              | 64QAM      | 1       | 0         | 18.01                 | 18.00                    | 18.06                  |                     |
| 20              | 64QAM      | 1       | 49        | 18.11                 | 18.12                    | 18.12                  | 18.5                |
| 20              | 64QAM      | 1       | 99        | 18.14                 | 18.13                    | 18.18                  |                     |
| 20              | 64QAM      | 50      | 0         | 17.96                 | 17.98                    | 17.97                  |                     |
| 20              | 64QAM      | 50      | 24        | 18.03                 | 17.99                    | 18.06                  | 18.5                |
| 20              | 64QAM      | 50      | 50        | 18.05                 | 18.07                    | 18.09                  |                     |
| 20              | 64QAM      | 100     | 0         | 17.96                 | 17.88                    | 17.93                  |                     |
| Channel         |            |         |           | 20825                 | 21100                    | 21375                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |
| 15              | QPSK       | 1       | 0         | 17.83                 | 17.83                    | 17.92                  | 18.5                |
| 15              | QPSK       | 1       | 37        | 17.85                 | 17.88                    | 17.89                  |                     |
| 15              | QPSK       | 1       | 74        | 17.91                 | 17.94                    | 17.97                  |                     |
| 15              | QPSK       | 36      | 0         | 17.94                 | 17.93                    | 17.99                  | 18.5                |
| 15              | QPSK       | 36      | 20        | 18.01                 | 17.96                    | 18.09                  |                     |
| 15              | QPSK       | 36      | 39        | 18.05                 | 18.02                    | 18.11                  |                     |
| 15              | QPSK       | 75      | 0         | 17.95                 | 17.88                    | 17.95                  | 18.5                |
| 15              | 16QAM      | 1       | 0         | 18.15                 | 18.15                    | 18.17                  |                     |
| 15              | 16QAM      | 1       | 37        | 18.14                 | 18.16                    | 18.18                  |                     |
| 15              | 16QAM      | 1       | 74        | 18.19                 | 18.21                    | 18.24                  | 18.5                |
| 15              | 16QAM      | 36      | 0         | 17.91                 | 17.92                    | 17.98                  |                     |
| 15              | 16QAM      | 36      | 20        | 18.04                 | 17.95                    | 18.07                  |                     |
| 15              | 16QAM      | 36      | 39        | 18.01                 | 18.02                    | 18.05                  | 18.5                |
| 15              | 16QAM      | 75      | 0         | 17.96                 | 17.91                    | 17.95                  |                     |
| 15              | 64QAM      | 1       | 0         | 18.08                 | 18.02                    | 18.09                  |                     |
| 15              | 64QAM      | 1       | 37        | 18.10                 | 18.11                    | 18.16                  | 18.5                |
| 15              | 64QAM      | 1       | 74        | 18.13                 | 18.17                    | 18.23                  |                     |
| 15              | 64QAM      | 36      | 0         | 17.98                 | 17.97                    | 18.00                  |                     |
| 15              | 64QAM      | 36      | 20        | 18.11                 | 18.01                    | 18.06                  | 18.5                |
| 15              | 64QAM      | 36      | 39        | 18.11                 | 18.09                    | 18.13                  |                     |
| 15              | 64QAM      | 75      | 0         | 18.00                 | 17.93                    | 17.95                  |                     |
| Channel         |            |         |           | 20800                 | 21100                    | 21400                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505                  | 2535                     | 2565                   |                     |
| 10              | QPSK       | 1       | 0         | 17.64                 | 17.63                    | 17.65                  | 18.5                |
| 10              | QPSK       | 1       | 25        | 17.61                 | 17.66                    | 17.71                  |                     |
| 10              | QPSK       | 1       | 49        | 17.66                 | 17.71                    | 17.73                  |                     |
| 10              | QPSK       | 25      | 0         | 17.73                 | 17.74                    | 17.72                  | 18.5                |
| 10              | QPSK       | 25      | 12        | 17.78                 | 17.74                    | 17.84                  |                     |
| 10              | QPSK       | 25      | 25        | 17.80                 | 17.84                    | 17.86                  |                     |
| 10              | QPSK       | 50      | 0         | 17.71                 | 17.68                    | 17.77                  | 18.5                |
| 10              | 16QAM      | 1       | 0         | 17.86                 | 18.02                    | 18.01                  |                     |
| 10              | 16QAM      | 1       | 25        | 18.03                 | 18.04                    | 18.04                  |                     |
| 10              | 16QAM      | 1       | 49        | 18.04                 | 18.13                    | 18.11                  | 18.5                |
| 10              | 16QAM      | 25      | 0         | 17.69                 | 17.72                    | 17.74                  |                     |
| 10              | 16QAM      | 25      | 12        | 17.79                 | 17.74                    | 17.83                  |                     |
| 10              | 16QAM      | 25      | 25        | 17.78                 | 17.82                    | 17.82                  | 18.5                |
| 10              | 16QAM      | 50      | 0         | 17.69                 | 17.62                    | 17.72                  |                     |
| 10              | 64QAM      | 1       | 0         | 17.83                 | 17.89                    | 17.93                  |                     |
| 10              | 64QAM      | 1       | 25        | 17.99                 | 18.01                    | 18.03                  | 18.5                |
| 10              | 64QAM      | 1       | 49        | 17.94                 | 18.01                    | 18.00                  |                     |
| 10              | 64QAM      | 25      | 0         | 17.73                 | 17.77                    | 17.76                  |                     |
| 10              | 64QAM      | 25      | 12        | 17.83                 | 17.77                    | 17.85                  | 18.5                |
| 10              | 64QAM      | 25      | 25        | 17.82                 | 17.84                    | 17.89                  |                     |
| 10              | 64QAM      | 50      | 0         | 17.76                 | 17.67                    | 17.77                  |                     |
| Channel         |            |         |           | 20775                 | 21100                    | 21425                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |
| 5               | QPSK       | 1       | 0         | 17.64                 | 17.68                    | 17.75                  | 18.5                |
| 5               | QPSK       | 1       | 12        | 17.72                 | 17.80                    | 17.82                  |                     |
| 5               | QPSK       | 1       | 24        | 17.73                 | 17.76                    | 17.76                  |                     |
| 5               | QPSK       | 12      | 0         | 17.78                 | 17.74                    | 17.84                  | 18.5                |
| 5               | QPSK       | 12      | 7         | 17.82                 | 17.78                    | 17.88                  |                     |
| 5               | QPSK       | 12      | 13        | 17.79                 | 17.79                    | 17.82                  |                     |
| 5               | QPSK       | 25      | 0         | 17.76                 | 17.74                    | 17.81                  | 18.5                |
| 5               | 16QAM      | 1       | 0         | 17.88                 | 18.01                    | 18.12                  |                     |
| 5               | 16QAM      | 1       | 12        | 18.07                 | 18.13                    | 18.17                  |                     |
| 5               | 16QAM      | 1       | 24        | 18.05                 | 18.12                    | 18.13                  | 18.5                |
| 5               | 16QAM      | 12      | 0         | 17.79                 | 17.76                    | 17.84                  |                     |
| 5               | 16QAM      | 12      | 7         | 17.81                 | 17.81                    | 17.89                  |                     |
| 5               | 16QAM      | 12      | 13        | 17.79                 | 17.81                    | 17.84                  | 18.5                |
| 5               | 16QAM      | 25      | 0         | 17.75                 | 17.75                    | 17.80                  |                     |
| 5               | 64QAM      | 1       | 0         | 17.95                 | 18.00                    | 18.10                  |                     |
| 5               | 64QAM      | 1       | 12        | 18.02                 | 18.00                    | 18.01                  | 18.5                |
| 5               | 64QAM      | 1       | 24        | 18.03                 | 18.06                    | 18.05                  |                     |
| 5               | 64QAM      | 12      | 0         | 17.83                 | 17.82                    | 17.88                  |                     |
| 5               | 64QAM      | 12      | 7         | 17.89                 | 17.85                    | 17.92                  | 18.5                |
| 5               | 64QAM      | 12      | 13        | 17.86                 | 17.86                    | 17.94                  |                     |
| 5               | 64QAM      | 25      | 0         | 17.80                 | 17.78                    | 17.84                  |                     |





| Band 26_Ant 3   |            |         |           |                       |                          |                        |                     |  |  |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|--|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 26765                 | 26865                    | 26965                  |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 21.29                 | 21.27                    | 21.25                  | 22                  |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 21.17                 | 21.26                    | 21.24                  |                     |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 21.19                 | 21.25                    | 21.13                  |                     |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 21.24                 | 21.24                    | 21.21                  | 22                  |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 21.29                 | 21.30                    | 21.34                  |                     |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 21.29                 | 21.24                    | 21.26                  |                     |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 21.25                 | 21.26                    | 21.20                  | 22                  |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 21.69                 | 21.58                    | 21.55                  |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 21.44                 | 21.58                    | 21.49                  |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 21.47                 | 21.55                    | 21.42                  | 22                  |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 21.21                 | 21.18                    | 21.21                  |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 21.34                 | 21.19                    | 21.32                  |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 21.29                 | 21.30                    | 21.24                  | 22                  |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 21.28                 | 21.23                    | 21.22                  |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 21.47                 | 21.37                    | 21.53                  |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 21.40                 | 21.46                    | 21.56                  | 22                  |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 21.46                 | 21.43                    | 21.31                  |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 20.28                 | 20.26                    | 20.25                  |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 20.34                 | 20.26                    | 20.37                  | 21                  |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 20.25                 | 20.31                    | 20.28                  |                     |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 20.29                 | 20.22                    | 20.11                  |                     |  |  |  |  |
| Channel         |            |         |           | 26740                 | 26865                    | 26990                  | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 819                   | 831.5                    | 844                    |                     |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 21.03                 | 21.06                    | 21.05                  | 22                  |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 20.93                 | 21.00                    | 20.96                  |                     |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 20.95                 | 20.95                    | 20.92                  |                     |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 20.90                 | 20.89                    | 20.89                  | 22                  |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 21.08                 | 21.09                    | 21.04                  |                     |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 21.01                 | 21.11                    | 20.99                  |                     |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 21.01                 | 20.98                    | 20.94                  | 22                  |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 21.36                 | 21.44                    | 21.39                  |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 21.35                 | 21.31                    | 21.38                  |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 21.31                 | 21.38                    | 21.30                  | 22                  |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 20.94                 | 20.92                    | 20.94                  |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 21.12                 | 21.03                    | 21.10                  |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 20.98                 | 21.00                    | 21.08                  | 22                  |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 21.01                 | 20.99                    | 20.97                  |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 21.34                 | 21.25                    | 21.22                  |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 21.18                 | 21.35                    | 21.19                  | 22                  |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 21.14                 | 21.26                    | 21.06                  |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 19.95                 | 19.95                    | 19.99                  |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 20.17                 | 20.08                    | 20.09                  | 21                  |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 20.01                 | 20.10                    | 20.01                  |                     |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 20.04                 | 19.95                    | 19.99                  |                     |  |  |  |  |
| Channel         |            |         |           | 26715                 | 26865                    | 27015                  | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  |                     |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 20.88                 | 21.03                    | 21.03                  | 22                  |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 21.09                 | 21.09                    | 21.05                  |                     |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 20.97                 | 21.05                    | 20.95                  |                     |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 21.04                 | 21.03                    | 21.00                  | 22                  |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 21.17                 | 21.17                    | 21.11                  |                     |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 21.11                 | 21.13                    | 21.02                  |                     |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 21.09                 | 21.10                    | 20.99                  | 22                  |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 21.16                 | 21.30                    | 21.26                  |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 21.36                 | 21.29                    | 21.29                  |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 21.28                 | 21.40                    | 21.28                  | 22                  |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 21.05                 | 21.02                    | 21.06                  |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 21.15                 | 21.16                    | 21.14                  |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 21.11                 | 21.09                    | 21.06                  | 22                  |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 21.12                 | 21.03                    | 21.04                  |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 21.18                 | 21.22                    | 21.15                  |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 21.19                 | 21.22                    | 21.22                  | 22                  |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 21.21                 | 21.30                    | 21.18                  |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 20.09                 | 20.08                    | 20.11                  |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 20.29                 | 20.19                    | 20.16                  | 21                  |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 20.14                 | 20.11                    | 20.10                  |                     |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 20.11                 | 20.05                    | 20.05                  |                     |  |  |  |  |
| Channel         |            |         |           | 26705                 | 26865                    | 27025                  | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 815.5                 | 831.5                    | 847.5                  |                     |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 20.95                 | 21.00                    | 20.98                  | 22                  |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 21.06                 | 21.09                    | 21.03                  |                     |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 20.97                 | 21.07                    | 20.95                  |                     |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 21.06                 | 21.09                    | 21.02                  | 22                  |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 21.11                 | 21.14                    | 21.02                  |                     |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 21.09                 | 21.15                    | 21.02                  |                     |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 21.05                 | 21.05                    | 21.04                  | 22                  |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 21.26                 | 21.31                    | 21.33                  |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 21.37                 | 21.36                    | 21.33                  |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 21.23                 | 21.38                    | 21.25                  | 22                  |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 21.05                 | 21.07                    | 21.12                  |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 21.19                 | 21.16                    | 21.15                  |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 21.14                 | 21.13                    | 21.07                  | 22                  |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 21.14                 | 21.05                    | 21.05                  |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 21.07                 | 21.42                    | 21.23                  |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 8         | 21.27                 | 21.32                    | 21.22                  | 22                  |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 21.20                 | 21.27                    | 21.17                  |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 20.06                 | 20.11                    | 20.11                  |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 20.29                 | 20.21                    | 20.12                  | 21                  |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 20.15                 | 20.12                    | 20.13                  |                     |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 20.10                 | 20.06                    | 20.06                  |                     |  |  |  |  |
| Channel         |            |         |           | 26697                 | 26865                    | 27033                  | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 814.7                 | 831.5                    | 848.3                  |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 20.87                 | 20.92                    | 20.81                  | 22                  |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 21.01                 | 21.04                    | 20.94                  |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 20.97                 | 20.96                    | 20.89                  |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 20.93                 | 20.83                    | 20.94                  | 22                  |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 20.95                 | 20.95                    | 20.89                  |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 20.96                 | 20.96                    | 20.86                  |                     |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 21.04                 | 20.99                    | 20.95                  | 22                  |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 21.13                 | 21.19                    | 21.20                  |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 21.36                 | 21.32                    | 21.19                  |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 21.24                 | 21.28                    | 21.12                  | 22                  |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 21.00                 | 21.02                    | 20.91                  |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 21.13                 | 20.99                    | 21.04                  |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 20.96                 | 21.02                    | 20.90                  | 22                  |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 21.09                 | 21.10                    | 21.09                  |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 0         | 21.12                 | 21.16                    | 21.08                  |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 21.24                 | 21.23                    | 21.03                  | 22                  |  |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 21.17                 | 21.26                    | 21.06                  |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 21.09                 | 21.05                    | 21.07                  |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 21.16                 | 21.15                    | 21.07                  | 22                  |  |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 21.15                 | 21.15                    | 21.05                  |                     |  |  |  |  |
| 1.4             | 64QAM      | 6       | 0         | 20.00                 | 19.96                    | 20.01                  |                     |  |  |  |  |







| Band 2_Ant 3    |            |         |           |                           |                              |                            |                     |
|-----------------|------------|---------|-----------|---------------------------|------------------------------|----------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq. 18700 | Power Middle Ch. Freq. 18800 | Power High Ch. Freq. 19100 | Tune-up limit (dBm) |
| Channel         |            |         |           | 1860                      | 1880                         | 1900                       |                     |
| Frequency (MHz) |            |         |           | 1860                      | 1880                         | 1900                       |                     |
| 20              | QPSK       | 1       | 0         | 19.69                     | 19.62                        | 19.68                      | 21                  |
| 20              | QPSK       | 1       | 49        | 19.56                     | 19.59                        | 19.61                      |                     |
| 20              | QPSK       | 1       | 99        | 19.51                     | 19.58                        | 19.58                      |                     |
| 20              | QPSK       | 50      | 0         | 19.67                     | 19.60                        | 19.63                      |                     |
| 20              | QPSK       | 50      | 24        | 19.74                     | 19.77                        | 19.74                      |                     |
| 20              | QPSK       | 50      | 50        | 19.68                     | 19.72                        | 19.75                      | 21                  |
| 20              | QPSK       | 100     | 0         | 19.68                     | 19.71                        | 19.66                      |                     |
| 20              | 16QAM      | 1       | 0         | 20.05                     | 19.97                        | 20.01                      |                     |
| 20              | 16QAM      | 1       | 49        | 19.93                     | 19.96                        | 20.01                      |                     |
| 20              | 16QAM      | 1       | 99        | 19.90                     | 19.93                        | 19.96                      |                     |
| 20              | 16QAM      | 50      | 0         | 19.69                     | 19.62                        | 19.64                      | 21                  |
| 20              | 16QAM      | 50      | 24        | 19.75                     | 19.78                        | 19.75                      |                     |
| 20              | 16QAM      | 50      | 50        | 19.70                     | 19.74                        | 19.77                      |                     |
| 20              | 16QAM      | 100     | 0         | 19.69                     | 19.71                        | 19.67                      |                     |
| 20              | 64QAM      | 1       | 0         | 19.95                     | 19.84                        | 19.92                      |                     |
| 20              | 64QAM      | 1       | 49        | 19.80                     | 19.83                        | 19.88                      | 21                  |
| 20              | 64QAM      | 1       | 99        | 19.78                     | 19.83                        | 19.83                      |                     |
| 20              | 64QAM      | 50      | 0         | 19.68                     | 19.62                        | 19.69                      |                     |
| 20              | 64QAM      | 50      | 24        | 19.75                     | 19.77                        | 19.78                      |                     |
| 20              | 64QAM      | 50      | 50        | 19.69                     | 19.73                        | 19.81                      |                     |
| 20              | 64QAM      | 100     | 0         | 19.69                     | 19.71                        | 19.72                      | Tune-up limit (dBm) |
| Channel         |            |         |           | 1867.5                    | 18900                        | 19125                      |                     |
| Frequency (MHz) |            |         |           | 1857.5                    | 1880                         | 1902.5                     |                     |
| 15              | QPSK       | 1       | 0         | 19.54                     | 19.66                        | 19.71                      | 21                  |
| 15              | QPSK       | 1       | 37        | 19.58                     | 19.61                        | 19.66                      |                     |
| 15              | QPSK       | 1       | 74        | 19.53                     | 19.63                        | 19.63                      |                     |
| 15              | QPSK       | 36      | 0         | 19.71                     | 19.64                        | 19.68                      |                     |
| 15              | QPSK       | 36      | 20        | 19.78                     | 19.79                        | 19.83                      |                     |
| 15              | QPSK       | 36      | 39        | 19.72                     | 19.76                        | 19.78                      | 21                  |
| 15              | QPSK       | 75      | 0         | 19.73                     | 19.74                        | 19.69                      |                     |
| 15              | 16QAM      | 1       | 0         | 19.87                     | 20.00                        | 20.03                      |                     |
| 15              | 16QAM      | 1       | 37        | 19.95                     | 19.98                        | 20.00                      |                     |
| 15              | 16QAM      | 1       | 74        | 19.87                     | 19.97                        | 19.98                      |                     |
| 15              | 16QAM      | 36      | 0         | 19.73                     | 19.84                        | 19.70                      | 21                  |
| 15              | 16QAM      | 36      | 20        | 19.76                     | 19.79                        | 19.82                      |                     |
| 15              | 16QAM      | 36      | 39        | 19.72                     | 19.77                        | 19.80                      |                     |
| 15              | 16QAM      | 75      | 0         | 19.74                     | 19.75                        | 19.75                      |                     |
| 15              | 64QAM      | 1       | 0         | 19.77                     | 19.80                        | 19.80                      |                     |
| 15              | 64QAM      | 1       | 37        | 19.83                     | 19.87                        | 19.85                      | 21                  |
| 15              | 64QAM      | 1       | 74        | 19.75                     | 19.85                        | 19.87                      |                     |
| 15              | 64QAM      | 36      | 0         | 19.74                     | 19.68                        | 19.74                      |                     |
| 15              | 64QAM      | 36      | 20        | 19.80                     | 19.79                        | 19.88                      |                     |
| 15              | 64QAM      | 36      | 39        | 19.75                     | 19.78                        | 19.85                      |                     |
| 15              | 64QAM      | 75      | 0         | 19.73                     | 19.73                        | 19.74                      | Tune-up limit (dBm) |
| Channel         |            |         |           | 18650                     | 18900                        | 19150                      |                     |
| Frequency (MHz) |            |         |           | 1855                      | 1880                         | 1905                       |                     |
| 10              | QPSK       | 1       | 0         | 19.22                     | 19.20                        | 19.59                      | 21                  |
| 10              | QPSK       | 1       | 25        | 19.50                     | 19.51                        | 19.51                      |                     |
| 10              | QPSK       | 1       | 49        | 19.22                     | 19.24                        | 19.48                      |                     |
| 10              | QPSK       | 25      | 0         | 19.55                     | 19.47                        | 19.50                      |                     |
| 10              | QPSK       | 25      | 12        | 19.62                     | 19.62                        | 19.60                      |                     |
| 10              | QPSK       | 25      | 25        | 19.50                     | 19.51                        | 19.53                      | 21                  |
| 10              | QPSK       | 50      | 0         | 19.53                     | 19.54                        | 19.50                      |                     |
| 10              | 16QAM      | 1       | 0         | 19.60                     | 19.54                        | 19.86                      |                     |
| 10              | 16QAM      | 1       | 25        | 19.86                     | 19.90                        | 19.91                      |                     |
| 10              | 16QAM      | 1       | 49        | 19.60                     | 19.62                        | 19.86                      |                     |
| 10              | 16QAM      | 25      | 0         | 19.55                     | 19.47                        | 19.50                      | 21                  |
| 10              | 16QAM      | 25      | 12        | 19.63                     | 19.65                        | 19.59                      |                     |
| 10              | 16QAM      | 25      | 25        | 19.50                     | 19.53                        | 19.53                      |                     |
| 10              | 16QAM      | 50      | 0         | 19.55                     | 19.54                        | 19.53                      |                     |
| 10              | 64QAM      | 1       | 0         | 19.49                     | 19.39                        | 19.82                      |                     |
| 10              | 64QAM      | 1       | 25        | 19.82                     | 19.83                        | 19.81                      | 21                  |
| 10              | 64QAM      | 1       | 49        | 19.51                     | 19.54                        | 19.76                      |                     |
| 10              | 64QAM      | 25      | 0         | 19.61                     | 19.51                        | 19.56                      |                     |
| 10              | 64QAM      | 25      | 12        | 19.70                     | 19.69                        | 19.64                      |                     |
| 10              | 64QAM      | 25      | 25        | 19.55                     | 19.55                        | 19.55                      |                     |
| 10              | 64QAM      | 50      | 0         | 19.59                     | 19.56                        | 19.53                      | Tune-up limit (dBm) |
| Channel         |            |         |           | 18625                     | 18900                        | 19175                      |                     |
| Frequency (MHz) |            |         |           | 1852.5                    | 1880                         | 1907.5                     |                     |
| 5               | QPSK       | 1       | 0         | 19.53                     | 19.45                        | 19.49                      | 21                  |
| 5               | QPSK       | 1       | 12        | 19.60                     | 19.57                        | 19.59                      |                     |
| 5               | QPSK       | 1       | 24        | 19.44                     | 19.44                        | 19.47                      |                     |
| 5               | QPSK       | 12      | 0         | 19.67                     | 19.57                        | 19.64                      |                     |
| 5               | QPSK       | 12      | 7         | 19.71                     | 19.67                        | 19.65                      |                     |
| 5               | QPSK       | 12      | 13        | 19.58                     | 19.57                        | 19.59                      | 21                  |
| 5               | QPSK       | 25      | 0         | 19.61                     | 19.62                        | 19.58                      |                     |
| 5               | 16QAM      | 1       | 0         | 19.88                     | 19.77                        | 19.80                      |                     |
| 5               | 16QAM      | 1       | 12        | 19.87                     | 19.82                        | 19.85                      |                     |
| 5               | 16QAM      | 1       | 24        | 19.79                     | 19.77                        | 19.75                      |                     |
| 5               | 16QAM      | 12      | 0         | 19.68                     | 19.61                        | 19.62                      | 21                  |
| 5               | 16QAM      | 12      | 7         | 19.69                     | 19.68                        | 19.63                      |                     |
| 5               | 16QAM      | 12      | 13        | 19.60                     | 19.58                        | 19.59                      |                     |
| 5               | 16QAM      | 25      | 0         | 19.64                     | 19.63                        | 19.59                      |                     |
| 5               | 64QAM      | 1       | 0         | 19.81                     | 19.69                        | 19.73                      |                     |
| 5               | 64QAM      | 1       | 12        | 19.79                     | 19.77                        | 19.73                      | 21                  |
| 5               | 64QAM      | 1       | 24        | 19.70                     | 19.67                        | 19.63                      |                     |
| 5               | 64QAM      | 12      | 0         | 19.74                     | 19.67                        | 19.69                      |                     |
| 5               | 64QAM      | 12      | 7         | 19.76                     | 19.74                        | 19.71                      |                     |
| 5               | 64QAM      | 12      | 13        | 19.67                     | 19.65                        | 19.65                      |                     |
| 5               | 64QAM      | 25      | 0         | 19.68                     | 19.65                        | 19.59                      | Tune-up limit (dBm) |
| Channel         |            |         |           | 18615                     | 18900                        | 19185                      |                     |
| Frequency (MHz) |            |         |           | 1851.5                    | 1880                         | 1908.5                     |                     |
| 3               | QPSK       | 1       | 0         | 19.49                     | 19.40                        | 19.42                      | 21                  |
| 3               | QPSK       | 1       | 8         | 19.51                     | 19.55                        | 19.59                      |                     |
| 3               | QPSK       | 1       | 14        | 19.35                     | 19.44                        | 19.47                      |                     |
| 3               | QPSK       | 8       | 0         | 19.69                     | 19.51                        | 19.67                      |                     |
| 3               | QPSK       | 8       | 4         | 19.81                     | 19.76                        | 19.72                      |                     |
| 3               | QPSK       | 8       | 7         | 19.59                     | 19.67                        | 19.53                      | 21                  |
| 3               | QPSK       | 15      | 0         | 19.65                     | 19.54                        | 19.65                      |                     |
| 3               | 16QAM      | 1       | 0         | 19.94                     | 19.83                        | 19.87                      |                     |
| 3               | 16QAM      | 1       | 8         | 19.97                     | 19.81                        | 19.84                      |                     |
| 3               | 16QAM      | 1       | 14        | 19.80                     | 19.82                        | 19.76                      |                     |
| 3               | 16QAM      | 8       | 0         | 19.75                     | 19.58                        | 19.54                      | 21                  |
| 3               | 16QAM      | 8       | 4         | 19.73                     | 19.59                        | 19.58                      |                     |
| 3               | 16QAM      | 8       | 7         | 19.68                     | 19.56                        | 19.53                      |                     |
| 3               | 16QAM      | 15      | 0         | 19.69                     | 19.63                        | 19.59                      |                     |
| 3               | 64QAM      | 1       | 0         | 19.75                     | 19.74                        | 19.73                      |                     |
| 3               | 64QAM      | 1       | 8         | 19.86                     | 19.83                        | 19.71                      | 21                  |
| 3               | 64QAM      | 1       | 14        | 19.68                     | 19.75                        | 19.71                      |                     |
| 3               | 64QAM      | 8       | 0         | 19.64                     | 19.63                        | 19.71                      |                     |
| 3               | 64QAM      | 8       | 4         | 19.72                     | 19.75                        | 19.75                      |                     |
| 3               | 64QAM      | 8       | 7         | 19.70                     | 19.59                        | 19.62                      |                     |
| 3               | 64QAM      | 15      | 0         | 19.62                     | 19.75                        | 19.64                      | Tune-up limit (dBm) |
| Channel         |            |         |           | 18607                     | 18900                        | 19193                      |                     |
| Frequency (MHz) |            |         |           | 1850.7                    | 1880                         | 1909.3                     |                     |
| 1.4             | QPSK       | 1       | 0         | 19.51                     | 19.49                        | 19.49                      | 21                  |
| 1.4             | QPSK       | 1       | 3         | 19.56                     | 19.53                        | 19.52                      |                     |
| 1.4             | QPSK       | 1       | 5         | 19.45                     | 19.45                        | 19.40                      |                     |
| 1.4             | QPSK       | 3       | 0         | 19.53                     | 19.52                        | 19.46                      |                     |
| 1.4             | QPSK       | 3       | 1         | 19.56                     | 19.54                        | 19.49                      |                     |
| 1.4             | QPSK       | 3       | 3         | 19.51                     | 19.48                        | 19.46                      | 21                  |
| 1.4             | QPSK       | 6       | 0         | 19.59                     | 19.57                        | 19.56                      |                     |
| 1.4             | 16QAM      | 1       | 0         | 19.85                     | 19.81                        | 19.80                      |                     |
| 1.4             | 16QAM      | 1       | 3         | 19.88                     | 19.87                        | 19.85                      |                     |
| 1.4             | 16QAM      | 1       | 5         | 19.79                     | 19.75                        | 19.74                      |                     |
| 1.4             | 16QAM      | 3       | 0         | 19.64                     | 19.60                        | 19.56                      | 21                  |
| 1.4             | 16QAM      | 3       | 1         | 19.64                     | 19.64                        | 19.58                      |                     |
| 1.4             | 16QAM      | 3       | 3         | 19.58                     | 19.54                        | 19.50                      |                     |
| 1.4             | 16QAM      | 6       | 0         | 19.72                     | 19.66                        | 19.66                      |                     |
| 1.4             | 64QAM      | 1       | 0         | 19.79                     | 19.77                        | 19.71                      |                     |
| 1.4             | 64QAM      | 1       | 3         | 19.81                     | 19.77                        | 19.74                      | 21                  |
| 1.4             | 64QAM      | 1       | 5         | 19.71                     | 19.67                        | 19.67                      |                     |
| 1.4             | 64QAM      | 3       | 0         | 19.77                     | 19.73                        | 19.68                      |                     |
| 1.4             | 64QAM      | 3       | 1         | 19.80                     | 19.78                        | 19.75                      |                     |
| 1.4             | 64QAM      | 3       | 3         | 19.73                     | 19.69                        | 19.67                      |                     |
| 1.4             | 64QAM      | 6       | 0         | 19.64                     | 19.61                        | 19.57                      | 21                  |



| Band 5_Ant 1    |            |         |           |                             |                                |                              |                    |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|--------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 20450 | Power Middle Ch. / Freq. 20525 | Power High Ch. / Freq. 20600 | Tune-up limit (dB) |
| Channel         |            |         |           | 829                         | 836.5                          | 844                          | 22.5               |
| Frequency (MHz) |            |         |           | 21.05                       | 21.08                          | 21.10                        |                    |
| 10              | QPSK       | 1       | 0         | 21.05                       | 21.08                          | 21.10                        | 22.5               |
| 10              | QPSK       | 1       | 25        | 21.01                       | 21.04                          | 21.05                        |                    |
| 10              | QPSK       | 1       | 49        | 20.99                       | 21.04                          | 20.99                        |                    |
| 10              | QPSK       | 25      | 0         | 21.08                       | 21.10                          | 21.11                        |                    |
| 10              | QPSK       | 25      | 12        | 21.18                       | 21.17                          | 21.12                        | 22.5               |
| 10              | QPSK       | 25      | 25        | 21.13                       | 21.12                          | 21.14                        |                    |
| 10              | QPSK       | 50      | 0         | 21.10                       | 21.10                          | 21.02                        |                    |
| 10              | 16QAM      | 1       | 0         | 21.39                       | 21.40                          | 21.45                        |                    |
| 10              | 16QAM      | 1       | 25        | 21.40                       | 21.41                          | 21.43                        | 22.5               |
| 10              | 16QAM      | 1       | 49        | 21.37                       | 21.38                          | 21.37                        |                    |
| 10              | 16QAM      | 25      | 0         | 21.08                       | 21.10                          | 21.10                        |                    |
| 10              | 16QAM      | 25      | 12        | 21.18                       | 21.19                          | 21.12                        |                    |
| 10              | 16QAM      | 25      | 25        | 21.14                       | 21.12                          | 21.13                        | 22.5               |
| 10              | 16QAM      | 50      | 0         | 21.08                       | 21.09                          | 21.01                        |                    |
| 10              | 64QAM      | 1       | 0         | 21.26                       | 21.27                          | 21.31                        |                    |
| 10              | 64QAM      | 1       | 25        | 21.35                       | 21.32                          | 21.37                        |                    |
| 10              | 64QAM      | 1       | 49        | 21.29                       | 21.28                          | 21.26                        | 22                 |
| 10              | 64QAM      | 25      | 0         | 21.14                       | 21.14                          | 21.15                        |                    |
| 10              | 64QAM      | 25      | 12        | 21.23                       | 21.23                          | 21.18                        |                    |
| 10              | 64QAM      | 25      | 25        | 21.20                       | 21.17                          | 21.17                        |                    |
| 10              | 64QAM      | 50      | 0         | 21.12                       | 21.12                          | 21.04                        | 22.5               |
| Channel         |            |         |           | 20425                       | 20525                          | 20625                        |                    |
| Frequency (MHz) |            |         |           | 826.5                       | 836.5                          | 846.5                        | 22.5               |
| 5               | QPSK       | 1       | 0         | 20.98                       | 20.99                          | 20.95                        |                    |
| 5               | QPSK       | 1       | 12        | 21.09                       | 21.12                          | 21.12                        | 22.5               |
| 5               | QPSK       | 1       | 24        | 21.04                       | 21.03                          | 20.97                        |                    |
| 5               | QPSK       | 12      | 0         | 21.10                       | 21.07                          | 21.08                        |                    |
| 5               | QPSK       | 12      | 7         | 21.19                       | 21.18                          | 21.18                        |                    |
| 5               | QPSK       | 12      | 13        | 21.15                       | 21.16                          | 21.13                        | 22.5               |
| 5               | QPSK       | 25      | 0         | 21.14                       | 21.15                          | 21.14                        |                    |
| 5               | 16QAM      | 1       | 0         | 21.26                       | 21.30                          | 21.26                        |                    |
| 5               | 16QAM      | 1       | 12        | 21.30                       | 21.37                          | 21.34                        |                    |
| 5               | 16QAM      | 1       | 24        | 21.35                       | 21.35                          | 21.29                        | 22.5               |
| 5               | 16QAM      | 12      | 0         | 21.07                       | 21.09                          | 21.08                        |                    |
| 5               | 16QAM      | 12      | 7         | 21.18                       | 21.17                          | 21.18                        |                    |
| 5               | 16QAM      | 12      | 13        | 21.14                       | 21.16                          | 21.12                        |                    |
| 5               | 16QAM      | 25      | 0         | 21.14                       | 21.15                          | 21.12                        | 22                 |
| 5               | 64QAM      | 1       | 0         | 21.22                       | 21.21                          | 21.20                        |                    |
| 5               | 64QAM      | 1       | 12        | 21.26                       | 21.30                          | 21.28                        |                    |
| 5               | 64QAM      | 1       | 24        | 21.25                       | 21.28                          | 21.20                        |                    |
| 5               | 64QAM      | 12      | 0         | 21.15                       | 21.16                          | 21.16                        | 22                 |
| 5               | 64QAM      | 12      | 7         | 21.26                       | 21.27                          | 21.25                        |                    |
| 5               | 64QAM      | 12      | 13        | 21.23                       | 21.22                          | 21.20                        |                    |
| 5               | 64QAM      | 25      | 0         | 21.18                       | 21.18                          | 21.16                        |                    |
| Channel         |            |         |           | 20415                       | 20525                          | 20635                        | 22.5               |
| Frequency (MHz) |            |         |           | 825.5                       | 836.5                          | 847.5                        |                    |
| 3               | QPSK       | 1       | 0         | 20.98                       | 21.01                          | 21.00                        | 22.5               |
| 3               | QPSK       | 1       | 8         | 21.11                       | 21.14                          | 21.13                        |                    |
| 3               | QPSK       | 1       | 14        | 21.04                       | 21.06                          | 21.02                        |                    |
| 3               | QPSK       | 8       | 0         | 21.08                       | 21.09                          | 21.08                        |                    |
| 3               | QPSK       | 8       | 4         | 21.18                       | 21.17                          | 21.18                        | 22.5               |
| 3               | QPSK       | 8       | 7         | 21.14                       | 21.15                          | 21.13                        |                    |
| 3               | QPSK       | 15      | 0         | 21.15                       | 21.16                          | 21.09                        |                    |
| 3               | 16QAM      | 1       | 0         | 21.32                       | 21.30                          | 21.33                        |                    |
| 3               | 16QAM      | 1       | 8         | 21.30                       | 21.44                          | 21.42                        | 22.5               |
| 3               | 16QAM      | 1       | 14        | 21.36                       | 21.37                          | 21.33                        |                    |
| 3               | 16QAM      | 8       | 0         | 21.13                       | 21.13                          | 21.12                        |                    |
| 3               | 16QAM      | 8       | 4         | 21.23                       | 21.25                          | 21.20                        |                    |
| 3               | 16QAM      | 8       | 7         | 21.19                       | 21.20                          | 21.16                        | 22                 |
| 3               | 64QAM      | 1       | 0         | 21.18                       | 21.22                          | 21.21                        |                    |
| 3               | 64QAM      | 1       | 8         | 21.32                       | 21.37                          | 21.33                        |                    |
| 3               | 64QAM      | 1       | 14        | 21.24                       | 21.32                          | 21.24                        |                    |
| 3               | 64QAM      | 8       | 0         | 21.16                       | 21.18                          | 21.18                        | 22                 |
| 3               | 64QAM      | 8       | 4         | 21.24                       | 21.25                          | 21.25                        |                    |
| 3               | 64QAM      | 8       | 7         | 21.21                       | 21.25                          | 21.20                        |                    |
| 3               | 64QAM      | 15      | 0         | 21.19                       | 21.18                          | 21.11                        |                    |
| Channel         |            |         |           | 20407                       | 20525                          | 20643                        | 22.5               |
| Frequency (MHz) |            |         |           | 824.7                       | 836.5                          | 848.3                        |                    |
| 1.4             | QPSK       | 1       | 0         | 20.92                       | 20.99                          | 20.97                        | 22.5               |
| 1.4             | QPSK       | 1       | 3         | 21.05                       | 21.08                          | 21.04                        |                    |
| 1.4             | QPSK       | 1       | 5         | 20.99                       | 20.98                          | 20.96                        |                    |
| 1.4             | QPSK       | 3       | 0         | 20.96                       | 21.03                          | 20.95                        |                    |
| 1.4             | QPSK       | 3       | 1         | 21.02                       | 21.04                          | 20.99                        | 22.5               |
| 1.4             | QPSK       | 3       | 3         | 20.99                       | 21.01                          | 20.99                        |                    |
| 1.4             | QPSK       | 6       | 0         | 21.08                       | 21.07                          | 21.04                        |                    |
| 1.4             | 16QAM      | 1       | 0         | 21.21                       | 21.32                          | 21.28                        |                    |
| 1.4             | 16QAM      | 1       | 3         | 21.35                       | 21.37                          | 21.34                        | 22.5               |
| 1.4             | 16QAM      | 1       | 5         | 21.30                       | 21.29                          | 21.23                        |                    |
| 1.4             | 16QAM      | 3       | 0         | 21.08                       | 21.09                          | 21.06                        |                    |
| 1.4             | 16QAM      | 3       | 1         | 21.11                       | 21.12                          | 21.10                        |                    |
| 1.4             | 16QAM      | 3       | 3         | 21.05                       | 21.10                          | 21.04                        | 22.5               |
| 1.4             | 64QAM      | 6       | 0         | 21.14                       | 21.16                          | 21.12                        |                    |
| 1.4             | 64QAM      | 1       | 0         | 21.18                       | 21.22                          | 21.19                        |                    |
| 1.4             | 64QAM      | 1       | 3         | 21.24                       | 21.28                          | 21.21                        |                    |
| 1.4             | 64QAM      | 1       | 5         | 21.19                       | 21.23                          | 21.18                        | 22                 |
| 1.4             | 64QAM      | 3       | 0         | 21.19                       | 21.22                          | 21.17                        |                    |
| 1.4             | 64QAM      | 3       | 1         | 21.25                       | 21.28                          | 21.25                        |                    |
| 1.4             | 64QAM      | 3       | 3         | 21.19                       | 21.22                          | 21.18                        |                    |
| 1.4             | 64QAM      | 6       | 0         | 21.10                       | 21.10                          | 21.07                        | 22                 |



| Band 7_Ant 1    |            |         |           |                     |                        |                      |                     |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq. | Power Middle Ch. Freq. | Power High Ch. Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 20850               | 21100                  | 21350                |                     |
| Frequency (MHz) |            |         |           | 2510                | 2535                   | 2560                 |                     |
| 20              | QPSK       | 1       | 0         | 17.80               | 17.77                  | 17.85                | 19                  |
| 20              | QPSK       | 1       | 49        | 17.83               | 17.84                  | 17.89                |                     |
| 20              | QPSK       | 1       | 99        | 17.91               | 17.91                  | 17.96                |                     |
| 20              | QPSK       | 50      | 0         | 17.93               | 17.99                  | 17.97                | 19                  |
| 20              | QPSK       | 50      | 24        | 18.03               | 17.99                  | 18.04                |                     |
| 20              | QPSK       | 50      | 50        | 18.02               | 18.04                  | 18.12                |                     |
| 20              | QPSK       | 100     | 0         | 17.93               | 17.86                  | 17.88                | 19                  |
| 20              | 16QAM      | 1       | 0         | 18.15               | 18.10                  | 18.19                |                     |
| 20              | 16QAM      | 1       | 49        | 18.21               | 18.17                  | 18.22                |                     |
| 20              | 16QAM      | 1       | 99        | 18.25               | 18.20                  | 18.28                | 19                  |
| 20              | 16QAM      | 50      | 0         | 17.89               | 17.93                  | 17.95                |                     |
| 20              | 16QAM      | 50      | 24        | 18.02               | 17.96                  | 17.99                |                     |
| 20              | 16QAM      | 50      | 50        | 18.03               | 18.03                  | 18.07                | 19                  |
| 20              | 16QAM      | 100     | 0         | 17.93               | 17.82                  | 17.89                |                     |
| 20              | 64QAM      | 1       | 0         | 18.01               | 18.00                  | 18.06                |                     |
| 20              | 64QAM      | 1       | 49        | 18.11               | 18.12                  | 18.12                | 19                  |
| 20              | 64QAM      | 1       | 99        | 18.14               | 18.13                  | 18.18                |                     |
| 20              | 64QAM      | 50      | 0         | 17.96               | 17.98                  | 17.97                |                     |
| 20              | 64QAM      | 50      | 24        | 18.03               | 17.99                  | 18.06                | 19                  |
| 20              | 64QAM      | 50      | 50        | 18.05               | 18.07                  | 18.09                |                     |
| 20              | 64QAM      | 100     | 0         | 17.96               | 17.88                  | 17.93                |                     |
| Channel         |            |         |           | 20825               | 21100                  | 21375                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5              | 2535                   | 2562.5               |                     |
| 15              | QPSK       | 1       | 0         | 17.83               | 17.83                  | 17.92                | 19                  |
| 15              | QPSK       | 1       | 37        | 17.85               | 17.88                  | 17.89                |                     |
| 15              | QPSK       | 1       | 74        | 17.91               | 17.94                  | 17.97                |                     |
| 15              | QPSK       | 36      | 0         | 17.94               | 17.93                  | 17.99                | 19                  |
| 15              | QPSK       | 36      | 20        | 18.01               | 17.96                  | 18.09                |                     |
| 15              | QPSK       | 36      | 39        | 18.05               | 18.02                  | 18.11                |                     |
| 15              | QPSK       | 75      | 0         | 17.95               | 17.88                  | 17.95                | 19                  |
| 15              | 16QAM      | 1       | 0         | 18.15               | 18.15                  | 18.17                |                     |
| 15              | 16QAM      | 1       | 37        | 18.14               | 18.16                  | 18.18                |                     |
| 15              | 16QAM      | 1       | 74        | 18.19               | 18.21                  | 18.24                | 19                  |
| 15              | 16QAM      | 36      | 0         | 17.91               | 17.92                  | 17.98                |                     |
| 15              | 16QAM      | 36      | 20        | 18.04               | 17.95                  | 18.07                |                     |
| 15              | 16QAM      | 36      | 39        | 18.01               | 18.02                  | 18.05                | 19                  |
| 15              | 16QAM      | 75      | 0         | 17.96               | 17.91                  | 17.95                |                     |
| 15              | 64QAM      | 1       | 0         | 18.08               | 18.02                  | 18.09                |                     |
| 15              | 64QAM      | 1       | 37        | 18.10               | 18.11                  | 18.16                | 19                  |
| 15              | 64QAM      | 1       | 74        | 18.13               | 18.17                  | 18.23                |                     |
| 15              | 64QAM      | 36      | 0         | 17.98               | 17.97                  | 18.00                |                     |
| 15              | 64QAM      | 36      | 20        | 18.11               | 18.01                  | 18.06                | 19                  |
| 15              | 64QAM      | 36      | 39        | 18.11               | 18.09                  | 18.13                |                     |
| 15              | 64QAM      | 75      | 0         | 18.00               | 17.93                  | 17.95                |                     |
| Channel         |            |         |           | 20800               | 21100                  | 21400                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505                | 2535                   | 2565                 |                     |
| 10              | QPSK       | 1       | 0         | 17.64               | 17.63                  | 17.65                | 19                  |
| 10              | QPSK       | 1       | 25        | 17.61               | 17.66                  | 17.71                |                     |
| 10              | QPSK       | 1       | 49        | 17.66               | 17.71                  | 17.73                |                     |
| 10              | QPSK       | 25      | 0         | 17.73               | 17.74                  | 17.72                | 19                  |
| 10              | QPSK       | 25      | 12        | 17.78               | 17.74                  | 17.84                |                     |
| 10              | QPSK       | 25      | 25        | 17.80               | 17.84                  | 17.86                |                     |
| 10              | QPSK       | 50      | 0         | 17.71               | 17.68                  | 17.77                | 19                  |
| 10              | 16QAM      | 1       | 0         | 17.86               | 18.02                  | 18.01                |                     |
| 10              | 16QAM      | 1       | 25        | 18.03               | 18.04                  | 18.04                |                     |
| 10              | 16QAM      | 1       | 49        | 18.04               | 18.13                  | 18.11                | 19                  |
| 10              | 16QAM      | 25      | 0         | 17.69               | 17.72                  | 17.74                |                     |
| 10              | 16QAM      | 25      | 12        | 17.79               | 17.74                  | 17.83                |                     |
| 10              | 16QAM      | 25      | 25        | 17.78               | 17.82                  | 17.82                | 19                  |
| 10              | 16QAM      | 50      | 0         | 17.69               | 17.62                  | 17.72                |                     |
| 10              | 64QAM      | 1       | 0         | 17.83               | 17.89                  | 17.93                |                     |
| 10              | 64QAM      | 1       | 25        | 17.99               | 18.01                  | 18.03                | 19                  |
| 10              | 64QAM      | 1       | 49        | 17.94               | 18.01                  | 18.00                |                     |
| 10              | 64QAM      | 25      | 0         | 17.73               | 17.77                  | 17.76                |                     |
| 10              | 64QAM      | 25      | 12        | 17.83               | 17.77                  | 17.85                | 19                  |
| 10              | 64QAM      | 25      | 25        | 17.82               | 17.84                  | 17.89                |                     |
| 10              | 64QAM      | 50      | 0         | 17.76               | 17.67                  | 17.77                |                     |
| Channel         |            |         |           | 20775               | 21100                  | 21425                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5              | 2535                   | 2567.5               |                     |
| 5               | QPSK       | 1       | 0         | 17.64               | 17.68                  | 17.75                | 19                  |
| 5               | QPSK       | 1       | 12        | 17.72               | 17.80                  | 17.82                |                     |
| 5               | QPSK       | 1       | 24        | 17.73               | 17.76                  | 17.76                |                     |
| 5               | QPSK       | 12      | 0         | 17.78               | 17.74                  | 17.84                | 19                  |
| 5               | QPSK       | 12      | 7         | 17.82               | 17.78                  | 17.88                |                     |
| 5               | QPSK       | 12      | 13        | 17.79               | 17.79                  | 17.82                |                     |
| 5               | QPSK       | 25      | 0         | 17.76               | 17.74                  | 17.81                | 19                  |
| 5               | 16QAM      | 1       | 0         | 17.88               | 18.01                  | 18.12                |                     |
| 5               | 16QAM      | 1       | 12        | 18.07               | 18.13                  | 18.17                |                     |
| 5               | 16QAM      | 1       | 24        | 18.05               | 18.12                  | 18.13                | 19                  |
| 5               | 16QAM      | 12      | 0         | 17.79               | 17.76                  | 17.84                |                     |
| 5               | 16QAM      | 12      | 7         | 17.81               | 17.81                  | 17.89                |                     |
| 5               | 16QAM      | 12      | 13        | 17.79               | 17.81                  | 17.84                | 19                  |
| 5               | 16QAM      | 25      | 0         | 17.75               | 17.75                  | 17.80                |                     |
| 5               | 64QAM      | 1       | 0         | 17.95               | 18.00                  | 18.10                |                     |
| 5               | 64QAM      | 1       | 12        | 18.02               | 18.00                  | 18.01                | 19                  |
| 5               | 64QAM      | 1       | 24        | 18.03               | 18.06                  | 18.05                |                     |
| 5               | 64QAM      | 12      | 0         | 17.83               | 17.82                  | 17.88                |                     |
| 5               | 64QAM      | 12      | 7         | 17.89               | 17.85                  | 17.92                | 19                  |
| 5               | 64QAM      | 12      | 13        | 17.86               | 17.86                  | 17.94                |                     |
| 5               | 64QAM      | 25      | 0         | 17.80               | 17.78                  | 17.84                |                     |













| Band 5_Ant 0    |            |         |           |                       |                          |                        |                     |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 20450                 | 20525                    | 20600                  |                     |  |  |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     |  |  |
| 10              | QPSK       | 1       | 0         | 24.02                 | 24.02                    | 24.06                  | 25                  |  |  |
| 10              | QPSK       | 1       | 25        | 24.02                 | 24.01                    | 24.02                  |                     |  |  |
| 10              | QPSK       | 1       | 49        | 24.04                 | 24.13                    | 24.01                  |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.10                 | 23.09                    | 23.10                  |                     |  |  |
| 10              | QPSK       | 25      | 12        | 23.19                 | 23.18                    | 23.15                  | 24                  |  |  |
| 10              | QPSK       | 25      | 25        | 23.19                 | 23.15                    | 23.14                  |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.12                 | 23.10                    | 23.03                  |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 23.39                 | 23.37                    | 23.46                  |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 23.39                 | 23.41                    | 23.39                  | 24                  |  |  |
| 10              | 16QAM      | 1       | 49        | 23.42                 | 23.41                    | 23.39                  |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 22.11                 | 22.09                    | 22.11                  |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.21                 | 22.19                    | 22.13                  |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 22.19                 | 22.16                    | 22.16                  | 23                  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.10                 | 22.11                    | 22.01                  |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 22.22                 | 22.20                    | 22.23                  |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 22.33                 | 22.30                    | 22.33                  |                     |  |  |
| 10              | 64QAM      | 1       | 49        | 22.32                 | 22.28                    | 22.28                  | 23                  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.13                 | 21.13                    | 21.14                  |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 21.26                 | 21.25                    | 21.17                  |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 21.20                 | 21.19                    | 21.19                  |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.12                 | 21.15                    | 21.06                  | 22                  |  |  |
| Channel         |            |         |           | 20425                 | 20525                    | 20625                  |                     |  |  |
| Frequency (MHz) |            |         |           | 826.5                 | 836.5                    | 846.5                  |                     |  |  |
| 5               | QPSK       | 1       | 0         | 23.93                 | 23.93                    | 23.91                  | 25                  |  |  |
| 5               | QPSK       | 1       | 12        | 24.04                 | 24.06                    | 24.09                  |                     |  |  |
| 5               | QPSK       | 1       | 24        | 24.06                 | 24.02                    | 23.97                  |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.06                 | 23.09                    | 23.06                  |                     |  |  |
| 5               | QPSK       | 12      | 7         | 23.16                 | 23.17                    | 23.16                  | 24                  |  |  |
| 5               | QPSK       | 12      | 13        | 23.16                 | 23.16                    | 23.12                  |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.15                 | 23.14                    | 23.14                  |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 23.29                 | 23.29                    | 23.26                  |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 23.30                 | 23.40                    | 23.34                  | 24                  |  |  |
| 5               | 16QAM      | 1       | 24        | 23.31                 | 23.39                    | 23.29                  |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 22.09                 | 22.11                    | 22.10                  |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.19                 | 22.21                    | 22.17                  |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.16                 | 22.16                    | 22.13                  | 23                  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.16                 | 22.16                    | 22.14                  |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 22.17                 | 22.18                    | 22.18                  |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 22.23                 | 22.29                    | 22.25                  |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 22.24                 | 22.26                    | 22.20                  | 23                  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.15                 | 21.17                    | 21.15                  |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.26                 | 21.27                    | 21.23                  |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 21.21                 | 21.25                    | 21.21                  |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.19                 | 21.16                    | 21.16                  | 22                  |  |  |
| Channel         |            |         |           | 20415                 | 20525                    | 20635                  |                     |  |  |
| Frequency (MHz) |            |         |           | 825.5                 | 836.5                    | 847.5                  |                     |  |  |
| 3               | QPSK       | 1       | 0         | 23.98                 | 23.98                    | 23.94                  | 25                  |  |  |
| 3               | QPSK       | 1       | 8         | 24.12                 | 24.10                    | 24.07                  |                     |  |  |
| 3               | QPSK       | 1       | 14        | 24.06                 | 24.04                    | 23.99                  |                     |  |  |
| 3               | QPSK       | 8       | 0         | 23.08                 | 23.09                    | 23.06                  |                     |  |  |
| 3               | QPSK       | 8       | 4         | 23.18                 | 23.18                    | 23.15                  | 24                  |  |  |
| 3               | QPSK       | 8       | 7         | 23.16                 | 23.15                    | 23.11                  |                     |  |  |
| 3               | QPSK       | 15      | 0         | 23.16                 | 23.13                    | 23.08                  |                     |  |  |
| 3               | 16QAM      | 1       | 0         | 23.25                 | 23.31                    | 23.30                  |                     |  |  |
| 3               | 16QAM      | 1       | 8         | 23.30                 | 23.45                    | 23.39                  | 24                  |  |  |
| 3               | 16QAM      | 1       | 14        | 23.34                 | 23.41                    | 23.34                  |                     |  |  |
| 3               | 16QAM      | 8       | 0         | 22.14                 | 22.15                    | 22.11                  |                     |  |  |
| 3               | 16QAM      | 8       | 4         | 22.24                 | 22.25                    | 22.22                  |                     |  |  |
| 3               | 16QAM      | 8       | 7         | 22.22                 | 22.22                    | 22.18                  | 23                  |  |  |
| 3               | 16QAM      | 15      | 0         | 22.17                 | 22.19                    | 22.06                  |                     |  |  |
| 3               | 64QAM      | 1       | 0         | 22.19                 | 22.19                    | 22.17                  |                     |  |  |
| 3               | 64QAM      | 1       | 8         | 22.34                 | 22.35                    | 22.32                  |                     |  |  |
| 3               | 64QAM      | 1       | 14        | 22.26                 | 22.32                    | 22.21                  | 23                  |  |  |
| 3               | 64QAM      | 8       | 0         | 21.17                 | 21.17                    | 21.14                  |                     |  |  |
| 3               | 64QAM      | 8       | 4         | 21.25                 | 21.25                    | 21.22                  |                     |  |  |
| 3               | 64QAM      | 8       | 7         | 21.22                 | 21.23                    | 21.16                  |                     |  |  |
| 3               | 64QAM      | 15      | 0         | 21.19                 | 21.19                    | 21.10                  | 22                  |  |  |
| Channel         |            |         |           | 20407                 | 20525                    | 20643                  |                     |  |  |
| Frequency (MHz) |            |         |           | 824.7                 | 836.5                    | 848.3                  |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 23.90                 | 24.00                    | 23.94                  | 25                  |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.03                 | 24.03                    | 23.99                  |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 23.94                 | 23.98                    | 23.90                  |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 23.97                 | 23.99                    | 23.96                  |                     |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.01                 | 24.03                    | 24.01                  | 24                  |  |  |
| 1.4             | QPSK       | 3       | 3         | 23.98                 | 23.99                    | 23.95                  |                     |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.08                 | 23.09                    | 23.05                  |                     |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.21                 | 23.28                    | 23.24                  |                     |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.35                 | 23.36                    | 23.31                  | 24                  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.30                 | 23.31                    | 23.27                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.03                 | 23.08                    | 23.04                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.10                 | 23.13                    | 23.09                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.04                 | 23.10                    | 23.03                  | 23                  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.19                 | 22.17                    | 22.14                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 0         | 22.15                 | 22.21                    | 22.22                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 3         | 22.25                 | 22.29                    | 22.22                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.17                 | 22.20                    | 22.15                  | 23                  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.18                 | 22.19                    | 22.17                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.23                 | 22.26                    | 22.20                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.19                 | 22.21                    | 22.14                  |                     |  |  |
| 1.4             | 64QAM      | 6       | 0         | 21.08                 | 21.09                    | 21.06                  | 22                  |  |  |

| Band 7_Ant 2    |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 20850                 | 21100                    | 21350                  |                     |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   |                     |
| 20              | QPSK       | 1       | 0         | 14.49                 | 14.47                    | 14.54                  | 15.5                |
| 20              | QPSK       | 1       | 49        | 14.48                 | 14.54                    | 14.59                  |                     |
| 20              | QPSK       | 1       | 99        | 14.55                 | 14.62                    | 14.65                  |                     |
| 20              | QPSK       | 50      | 0         | 14.60                 | 14.66                    | 14.64                  | 15.5                |
| 20              | QPSK       | 50      | 24        | 14.65                 | 14.67                    | 14.69                  |                     |
| 20              | QPSK       | 50      | 50        | 14.66                 | 14.74                    | 14.76                  |                     |
| 20              | QPSK       | 100     | 0         | 14.58                 | 14.58                    | 14.59                  | 15.5                |
| 20              | 16QAM      | 1       | 0         | 14.69                 | 14.65                    | 14.96                  |                     |
| 20              | 16QAM      | 1       | 49        | 14.93                 | 14.97                    | 14.98                  |                     |
| 20              | 16QAM      | 1       | 99        | 14.99                 | 15.00                    | 15.08                  | 15.5                |
| 20              | 16QAM      | 50      | 0         | 14.62                 | 14.66                    | 14.72                  |                     |
| 20              | 16QAM      | 50      | 24        | 14.75                 | 14.71                    | 14.77                  |                     |
| 20              | 16QAM      | 50      | 50        | 14.75                 | 14.81                    | 14.84                  | 15.5                |
| 20              | 16QAM      | 100     | 0         | 14.65                 | 14.60                    | 14.86                  |                     |
| 20              | 64QAM      | 1       | 0         | 14.71                 | 14.71                    | 14.82                  | 15.5                |
| 20              | 64QAM      | 1       | 49        | 14.82                 | 14.79                    | 14.82                  |                     |
| 20              | 64QAM      | 1       | 99        | 14.85                 | 14.93                    | 14.96                  |                     |
| 20              | 64QAM      | 50      | 0         | 14.72                 | 14.72                    | 14.76                  | 15.5                |
| 20              | 64QAM      | 50      | 24        | 14.76                 | 14.76                    | 14.84                  |                     |
| 20              | 64QAM      | 50      | 50        | 14.75                 | 14.82                    | 14.97                  |                     |
| 20              | 64QAM      | 100     | 0         | 14.70                 | 14.62                    | 14.74                  | 15.5                |
| Channel         |            |         |           | 20825                 | 21100                    | 21375                  |                     |
| Frequency (MHz) |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |
| 15              | QPSK       | 1       | 0         | 14.54                 | 14.54                    | 14.58                  | 15.5                |
| 15              | QPSK       | 1       | 37        | 14.52                 | 14.57                    | 14.59                  |                     |
| 15              | QPSK       | 1       | 74        | 14.57                 | 14.62                    | 14.65                  |                     |
| 15              | QPSK       | 36      | 0         | 14.59                 | 14.64                    | 14.63                  | 15.5                |
| 15              | QPSK       | 36      | 20        | 14.70                 | 14.67                    | 14.70                  |                     |
| 15              | QPSK       | 36      | 39        | 14.71                 | 14.76                    | 14.78                  |                     |
| 15              | QPSK       | 75      | 0         | 14.61                 | 14.59                    | 14.60                  | 15.5                |
| 15              | 16QAM      | 1       | 0         | 14.53                 | 14.67                    | 14.97                  |                     |
| 15              | 16QAM      | 1       | 37        | 14.92                 | 14.96                    | 15.01                  |                     |
| 15              | 16QAM      | 1       | 74        | 14.95                 | 15.01                    | 15.05                  | 15.5                |
| 15              | 16QAM      | 36      | 0         | 14.67                 | 14.67                    | 14.75                  |                     |
| 15              | 16QAM      | 36      | 20        | 14.73                 | 14.70                    | 14.86                  |                     |
| 15              | 16QAM      | 36      | 39        | 14.75                 | 14.76                    | 14.86                  | 15.5                |
| 15              | 16QAM      | 75      | 0         | 14.70                 | 14.64                    | 14.71                  |                     |
| 15              | 64QAM      | 1       | 0         | 14.72                 | 14.76                    | 14.85                  |                     |
| 15              | 64QAM      | 1       | 37        | 14.85                 | 14.89                    | 14.95                  | 15.5                |
| 15              | 64QAM      | 1       | 74        | 14.86                 | 14.90                    | 15.00                  |                     |
| 15              | 64QAM      | 36      | 0         | 14.74                 | 14.72                    | 14.82                  |                     |
| 15              | 64QAM      | 36      | 20        | 14.80                 | 14.77                    | 14.90                  | 15.5                |
| 15              | 64QAM      | 36      | 39        | 14.82                 | 14.84                    | 14.91                  |                     |
| 15              | 64QAM      | 75      | 0         | 14.71                 | 14.69                    | 14.74                  |                     |
| Channel         |            |         |           | 20800                 | 21100                    | 21400                  |                     |
| Frequency (MHz) |            |         |           | 2505                  | 2535                     | 2565                   |                     |
| 10              | QPSK       | 1       | 0         | 14.30                 | 14.34                    | 14.32                  | 15.5                |
| 10              | QPSK       | 1       | 25        | 14.30                 | 14.39                    | 14.36                  |                     |
| 10              | QPSK       | 1       | 49        | 14.35                 | 14.44                    | 14.42                  |                     |
| 10              | QPSK       | 25      | 0         | 14.38                 | 14.42                    | 14.44                  | 15.5                |
| 10              | QPSK       | 25      | 12        | 14.49                 | 14.45                    | 14.46                  |                     |
| 10              | QPSK       | 25      | 25        | 14.47                 | 14.48                    | 14.55                  |                     |
| 10              | QPSK       | 50      | 0         | 14.40                 | 14.36                    | 14.36                  | 15.5                |
| 10              | 16QAM      | 1       | 0         | 14.73                 | 14.78                    | 14.82                  |                     |
| 10              | 16QAM      | 1       | 25        | 14.75                 | 14.81                    | 14.92                  |                     |
| 10              | 16QAM      | 1       | 49        | 14.78                 | 14.86                    | 14.91                  | 15.5                |
| 10              | 16QAM      | 25      | 0         | 14.43                 | 14.51                    | 14.56                  |                     |
| 10              | 16QAM      | 25      | 12        | 14.55                 | 14.53                    | 14.61                  |                     |
| 10              | 16QAM      | 25      | 25        | 14.52                 | 14.60                    | 14.62                  | 15.5                |
| 10              | 16QAM      | 50      | 0         | 14.43                 | 14.40                    | 14.53                  |                     |
| 10              | 64QAM      | 1       | 0         | 14.67                 | 14.65                    | 14.67                  |                     |
| 10              | 64QAM      | 1       | 25        | 14.71                 | 14.76                    | 14.79                  | 15.5                |
| 10              | 64QAM      | 1       | 49        | 14.69                 | 14.79                    | 14.79                  |                     |
| 10              | 64QAM      | 25      | 0         | 14.46                 | 14.51                    | 14.54                  |                     |
| 10              | 64QAM      | 25      | 12        | 14.57                 | 14.55                    | 14.66                  | 15.5                |
| 10              | 64QAM      | 25      | 25        | 14.55                 | 14.62                    | 14.65                  |                     |
| 10              | 64QAM      | 50      | 0         | 14.47                 | 14.44                    | 14.55                  |                     |
| Channel         |            |         |           | 20775                 | 21100                    | 21425                  |                     |
| Frequency (MHz) |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |
| 5               | QPSK       | 1       | 0         | 14.31                 | 14.38                    | 14.40                  | 15.5                |
| 5               | QPSK       | 1       | 12        | 14.38                 | 14.39                    | 14.44                  |                     |
| 5               | QPSK       | 1       | 24        | 14.39                 | 14.44                    | 14.44                  |                     |
| 5               | QPSK       | 12      | 0         | 14.38                 | 14.39                    | 14.43                  | 15.5                |
| 5               | QPSK       | 12      | 7         | 14.51                 | 14.45                    | 14.51                  |                     |
| 5               | QPSK       | 12      | 13        | 14.45                 | 14.50                    | 14.50                  |                     |
| 5               | QPSK       | 25      | 0         | 14.41                 | 14.42                    | 14.50                  | 15.5                |
| 5               | 16QAM      | 1       | 0         | 14.69                 | 14.74                    | 14.86                  |                     |
| 5               | 16QAM      | 1       | 12        | 14.73                 | 14.72                    | 14.90                  |                     |
| 5               | 16QAM      | 1       | 24        | 14.77                 | 14.79                    | 14.86                  | 15.5                |
| 5               | 16QAM      | 12      | 0         | 14.50                 | 14.52                    | 14.60                  |                     |
| 5               | 16QAM      | 12      | 7         | 14.56                 | 14.56                    | 14.63                  |                     |
| 5               | 16QAM      | 12      | 13        | 14.51                 | 14.58                    | 14.59                  | 15.5                |
| 5               | 16QAM      | 25      | 0         | 14.48                 | 14.48                    | 14.59                  |                     |
| 5               | 64QAM      | 1       | 0         | 14.67                 | 14.71                    | 14.83                  |                     |
| 5               | 64QAM      | 1       | 12        | 14.70                 | 14.73                    | 14.82                  | 15.5                |
| 5               | 64QAM      | 1       | 24        | 14.73                 | 14.76                    | 14.86                  |                     |
| 5               | 64QAM      | 12      | 0         | 14.56                 | 14.55                    | 14.63                  |                     |
| 5               | 64QAM      | 12      | 7         | 14.62                 | 14.62                    | 14.66                  | 15.5                |
| 5               | 64QAM      | 12      | 13        | 14.55                 | 14.59                    | 14.66                  |                     |
| 5               | 64QAM      | 25      | 0         | 14.51                 | 14.54                    | 14.61                  |                     |

| Band 12_Ant 0   |            |         |           |                       |                          |                        |                     |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 23060                 | 23095                    | 23130                  |                     |  |  |
| Frequency (MHz) |            |         |           | 704                   | 707.5                    | 711                    |                     |  |  |
| 10              | QPSK       | 1       | 0         | 23.00                 | 23.07                    | 23.06                  | 24                  |  |  |
| 10              | QPSK       | 1       | 25        | 23.03                 | 23.03                    | 23.03                  |                     |  |  |
| 10              | QPSK       | 1       | 49        | 23.10                 | 23.10                    | 23.11                  |                     |  |  |
| 10              | QPSK       | 25      | 0         | 22.05                 | 22.06                    | 22.08                  |                     |  |  |
| 10              | QPSK       | 25      | 12        | 22.25                 | 22.23                    | 22.20                  | 23                  |  |  |
| 10              | QPSK       | 25      | 25        | 22.21                 | 22.19                    | 22.22                  |                     |  |  |
| 10              | QPSK       | 50      | 0         | 22.18                 | 22.18                    | 22.11                  |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 22.38                 | 22.40                    | 22.42                  |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 22.41                 | 22.43                    | 22.46                  | 23                  |  |  |
| 10              | 16QAM      | 1       | 49        | 22.51                 | 22.49                    | 22.49                  |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 21.08                 | 21.07                    | 21.07                  |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 21.27                 | 21.25                    | 21.20                  |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 21.21                 | 21.18                    | 21.18                  | 22                  |  |  |
| 10              | 16QAM      | 50      | 0         | 21.18                 | 21.19                    | 21.10                  |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 21.25                 | 21.27                    | 21.30                  |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 21.38                 | 21.38                    | 21.37                  |                     |  |  |
| 10              | 64QAM      | 1       | 49        | 21.44                 | 21.38                    | 21.39                  | 22                  |  |  |
| 10              | 64QAM      | 25      | 0         | 20.09                 | 20.11                    | 20.11                  |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 20.28                 | 20.30                    | 20.23                  |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 20.25                 | 20.22                    | 20.26                  |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 20.18                 | 20.20                    | 20.15                  | 21                  |  |  |
| Channel         |            |         |           | 23035                 | 23095                    | 23155                  |                     |  |  |
| Frequency (MHz) |            |         |           | 701.5                 | 707.5                    | 713.5                  |                     |  |  |
| 5               | QPSK       | 1       | 0         | 23.01                 | 23.03                    | 23.03                  | 24                  |  |  |
| 5               | QPSK       | 1       | 12        | 23.09                 | 23.10                    | 23.15                  |                     |  |  |
| 5               | QPSK       | 1       | 24        | 23.08                 | 23.11                    | 23.14                  |                     |  |  |
| 5               | QPSK       | 12      | 0         | 22.18                 | 22.18                    | 22.17                  |                     |  |  |
| 5               | QPSK       | 12      | 7         | 22.24                 | 22.22                    | 22.22                  | 23                  |  |  |
| 5               | QPSK       | 12      | 13        | 22.20                 | 22.22                    | 22.22                  |                     |  |  |
| 5               | QPSK       | 25      | 0         | 22.20                 | 22.21                    | 22.21                  |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 22.38                 | 22.38                    | 22.36                  |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 22.41                 | 22.48                    | 22.41                  | 23                  |  |  |
| 5               | 16QAM      | 1       | 24        | 22.41                 | 22.44                    | 22.49                  |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 21.18                 | 21.18                    | 21.18                  |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 21.24                 | 21.28                    | 21.28                  |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 21.23                 | 21.24                    | 21.22                  | 22                  |  |  |
| 5               | 16QAM      | 25      | 0         | 21.22                 | 21.24                    | 21.21                  |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 21.24                 | 21.25                    | 21.31                  |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 21.30                 | 21.35                    | 21.33                  |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 21.34                 | 21.37                    | 21.38                  | 22                  |  |  |
| 5               | 64QAM      | 12      | 0         | 20.20                 | 20.21                    | 20.23                  |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 20.31                 | 20.32                    | 20.30                  |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 20.25                 | 20.27                    | 20.27                  |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 20.23                 | 20.24                    | 20.25                  | 21                  |  |  |
| Channel         |            |         |           | 23025                 | 23095                    | 23165                  |                     |  |  |
| Frequency (MHz) |            |         |           | 700.5                 | 707.5                    | 714.5                  |                     |  |  |
| 3               | QPSK       | 1       | 0         | 23.04                 | 23.06                    | 23.08                  | 24                  |  |  |
| 3               | QPSK       | 1       | 8         | 23.14                 | 23.16                    | 23.14                  |                     |  |  |
| 3               | QPSK       | 1       | 14        | 23.08                 | 23.09                    | 23.10                  |                     |  |  |
| 3               | QPSK       | 8       | 0         | 22.13                 | 22.14                    | 22.13                  |                     |  |  |
| 3               | QPSK       | 8       | 4         | 22.19                 | 22.24                    | 22.15                  | 23                  |  |  |
| 3               | QPSK       | 8       | 7         | 22.18                 | 22.21                    | 22.18                  |                     |  |  |
| 3               | QPSK       | 15      | 0         | 22.19                 | 22.20                    | 22.12                  |                     |  |  |
| 3               | 16QAM      | 1       | 0         | 22.37                 | 22.39                    | 22.41                  |                     |  |  |
| 3               | 16QAM      | 1       | 8         | 22.51                 | 22.48                    | 22.51                  | 23                  |  |  |
| 3               | 16QAM      | 1       | 14        | 22.47                 | 22.44                    | 22.44                  |                     |  |  |
| 3               | 16QAM      | 8       | 0         | 21.19                 | 21.23                    | 21.21                  |                     |  |  |
| 3               | 16QAM      | 8       | 4         | 21.28                 | 21.28                    | 21.23                  |                     |  |  |
| 3               | 16QAM      | 8       | 7         | 21.27                 | 21.27                    | 21.25                  | 22                  |  |  |
| 3               | 16QAM      | 15      | 0         | 21.25                 | 21.23                    | 21.17                  |                     |  |  |
| 3               | 64QAM      | 1       | 0         | 21.31                 | 21.31                    | 21.32                  |                     |  |  |
| 3               | 64QAM      | 1       | 8         | 21.42                 | 21.42                    | 21.40                  |                     |  |  |
| 3               | 64QAM      | 1       | 14        | 21.35                 | 21.40                    | 21.33                  | 22                  |  |  |
| 3               | 64QAM      | 8       | 0         | 20.21                 | 20.22                    | 20.22                  |                     |  |  |
| 3               | 64QAM      | 8       | 4         | 20.29                 | 20.29                    | 20.21                  |                     |  |  |
| 3               | 64QAM      | 8       | 7         | 20.29                 | 20.28                    | 20.28                  |                     |  |  |
| 3               | 64QAM      | 15      | 0         | 20.24                 | 20.24                    | 20.16                  | 21                  |  |  |
| Channel         |            |         |           | 23017                 | 23095                    | 23173                  |                     |  |  |
| Frequency (MHz) |            |         |           | 699.7                 | 707.5                    | 715.3                  |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 23.02                 | 22.94                    | 22.92                  | 24                  |  |  |
| 1.4             | QPSK       | 1       | 3         | 23.08                 | 23.09                    | 23.06                  |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 22.99                 | 23.01                    | 23.03                  |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 23.04                 | 23.05                    | 22.94                  |                     |  |  |
| 1.4             | QPSK       | 3       | 1         | 23.07                 | 23.08                    | 23.06                  | 23                  |  |  |
| 1.4             | QPSK       | 3       | 3         | 23.02                 | 23.03                    | 23.00                  |                     |  |  |
| 1.4             | QPSK       | 6       | 0         | 22.12                 | 22.12                    | 22.11                  |                     |  |  |
| 1.4             | 16QAM      | 1       | 0         | 22.32                 | 22.31                    | 22.29                  |                     |  |  |
| 1.4             | 16QAM      | 1       | 3         | 22.42                 | 22.40                    | 22.42                  | 23                  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 22.31                 | 22.33                    | 22.33                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 0         | 22.13                 | 22.11                    | 22.06                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 1         | 22.18                 | 22.15                    | 22.17                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 22.14                 | 22.09                    | 22.13                  | 22                  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 21.20                 | 21.22                    | 21.18                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 0         | 21.27                 | 21.21                    | 21.18                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 3         | 21.34                 | 21.31                    | 21.29                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 5         | 21.26                 | 21.29                    | 21.29                  | 22                  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 21.23                 | 21.24                    | 21.17                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 1         | 21.30                 | 21.28                    | 21.26                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 3         | 21.25                 | 21.25                    | 21.22                  |                     |  |  |
| 1.4             | 64QAM      | 6       | 0         | 20.13                 | 20.13                    | 20.11                  | 21                  |  |  |

| Band 13_Ant 0   |            |         |           |                        |                           |                         |                           |
|-----------------|------------|---------|-----------|------------------------|---------------------------|-------------------------|---------------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch./ Freq | Power Middle<br>Ch./ Freq | Power High<br>Ch./ Freq | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 23230                  |                           |                         |                           |
| Frequency (MHz) |            |         |           | 782                    |                           |                         |                           |
| 10              | QPSK       | 1       | 0         |                        | 23.12                     |                         | 23                        |
| 10              | QPSK       | 1       | 25        |                        | 23.04                     |                         |                           |
| 10              | QPSK       | 1       | 49        |                        | 23.12                     |                         |                           |
| 10              | QPSK       | 25      | 0         |                        | 22.12                     |                         |                           |
| 10              | QPSK       | 25      | 12        |                        | 22.12                     |                         | 23                        |
| 10              | QPSK       | 25      | 25        |                        | 22.17                     |                         |                           |
| 10              | QPSK       | 50      | 0         |                        | 22.08                     |                         |                           |
| 10              | 16QAM      | 1       | 0         |                        | 22.42                     |                         |                           |
| 10              | 16QAM      | 1       | 25        |                        | 22.42                     |                         | 22                        |
| 10              | 16QAM      | 1       | 49        |                        | 22.41                     |                         |                           |
| 10              | 16QAM      | 25      | 0         |                        | 21.13                     |                         |                           |
| 10              | 16QAM      | 25      | 12        |                        | 21.16                     |                         |                           |
| 10              | 16QAM      | 25      | 25        |                        | 21.13                     |                         | 22                        |
| 10              | 16QAM      | 50      | 0         |                        | 21.04                     |                         |                           |
| 10              | 64QAM      | 1       | 0         |                        | 21.28                     |                         |                           |
| 10              | 64QAM      | 1       | 25        |                        | 21.35                     |                         |                           |
| 10              | 64QAM      | 1       | 49        |                        | 21.33                     |                         | 21                        |
| 10              | 64QAM      | 25      | 0         |                        | 20.15                     |                         |                           |
| 10              | 64QAM      | 25      | 12        |                        | 20.19                     |                         |                           |
| 10              | 64QAM      | 25      | 25        |                        | 20.21                     |                         |                           |
| 10              | 64QAM      | 50      | 0         |                        | 20.04                     |                         |                           |
| Channel         |            |         |           | 23205                  | 23230                     | 23255                   |                           |
| Frequency (MHz) |            |         |           | 779.5                  | 782                       | 784.5                   |                           |
| 5               | QPSK       | 1       | 0         | 23.00                  | 23.06                     | 23.05                   | 24                        |
| 5               | QPSK       | 1       | 12        | 23.08                  | 23.10                     | 23.09                   |                           |
| 5               | QPSK       | 1       | 24        | 23.09                  | 23.11                     | 23.09                   |                           |
| 5               | QPSK       | 12      | 0         | 22.08                  | 22.08                     | 22.08                   |                           |
| 5               | QPSK       | 12      | 7         | 22.20                  | 22.13                     | 22.18                   | 23                        |
| 5               | QPSK       | 12      | 13        | 22.17                  | 22.15                     | 22.17                   |                           |
| 5               | QPSK       | 25      | 0         | 22.14                  | 22.11                     | 22.16                   |                           |
| 5               | 16QAM      | 1       | 0         | 22.37                  | 22.35                     | 22.38                   |                           |
| 5               | 16QAM      | 1       | 12        | 22.36                  | 22.35                     | 22.36                   | 22                        |
| 5               | 16QAM      | 1       | 24        | 22.41                  | 22.42                     | 22.44                   |                           |
| 5               | 16QAM      | 12      | 0         | 21.12                  | 21.11                     | 21.09                   |                           |
| 5               | 16QAM      | 12      | 7         | 21.21                  | 21.14                     | 21.19                   |                           |
| 5               | 16QAM      | 12      | 13        | 21.20                  | 21.17                     | 21.17                   | 21                        |
| 5               | 16QAM      | 25      | 0         | 21.19                  | 21.14                     | 21.17                   |                           |
| 5               | 64QAM      | 1       | 0         | 21.27                  | 21.31                     | 21.31                   |                           |
| 5               | 64QAM      | 1       | 12        | 21.30                  | 21.27                     | 21.24                   |                           |
| 5               | 64QAM      | 1       | 24        | 21.34                  | 21.29                     | 21.26                   | 21                        |
| 5               | 64QAM      | 12      | 0         | 20.19                  | 20.15                     | 20.15                   |                           |
| 5               | 64QAM      | 12      | 7         | 20.25                  | 20.22                     | 20.27                   |                           |
| 5               | 64QAM      | 12      | 13        | 20.25                  | 20.24                     | 20.24                   |                           |
| 5               | 64QAM      | 25      | 0         | 20.19                  | 20.16                     | 20.20                   |                           |



| Band 17_Ant 0   |            |         |           |                            |                               |                             |                     |  |  |
|-----------------|------------|---------|-----------|----------------------------|-------------------------------|-----------------------------|---------------------|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. 23760 | Power Middle Ch / Freq. 23790 | Power High Ch / Freq. 23800 | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 708                        | 710                           | 711                         |                     |  |  |
| Frequency (MHz) |            |         |           |                            |                               |                             |                     |  |  |
| 10              | QPSK       | 1       | 0         | 22.97                      | 22.95                         | 22.95                       | 24                  |  |  |
| 10              | QPSK       | 1       | 25        | 23.03                      | 23.01                         | 23.04                       |                     |  |  |
| 10              | QPSK       | 1       | 49        | 23.09                      | 23.11                         | 23.07                       |                     |  |  |
| 10              | QPSK       | 25      | 0         | 22.07                      | 22.05                         | 22.07                       |                     |  |  |
| 10              | QPSK       | 25      | 12        | 22.11                      | 22.11                         | 22.11                       | 23                  |  |  |
| 10              | QPSK       | 25      | 25        | 22.21                      | 22.21                         | 22.20                       |                     |  |  |
| 10              | QPSK       | 50      | 0         | 22.10                      | 22.12                         | 22.11                       |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 22.28                      | 22.27                         | 22.30                       |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 22.35                      | 22.39                         | 22.42                       | 23                  |  |  |
| 10              | 16QAM      | 1       | 49        | 22.45                      | 22.45                         | 22.43                       |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 21.08                      | 21.07                         | 21.08                       |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 21.12                      | 21.11                         | 21.10                       |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 21.20                      | 21.15                         | 21.22                       | 22                  |  |  |
| 10              | 16QAM      | 50      | 0         | 21.09                      | 21.09                         | 21.11                       |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 21.19                      | 21.12                         | 21.24                       |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 21.32                      | 21.32                         | 21.35                       |                     |  |  |
| 10              | 64QAM      | 1       | 49        | 21.34                      | 21.35                         | 21.35                       | 22                  |  |  |
| 10              | 64QAM      | 25      | 0         | 20.08                      | 20.11                         | 20.13                       |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 20.15                      | 20.16                         | 20.16                       |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 20.21                      | 20.23                         | 20.24                       |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 20.13                      | 20.13                         | 20.13                       | 21                  |  |  |
| Channel         |            |         |           | 23755                      | 23790                         | 23805                       |                     |  |  |
| Frequency (MHz) |            |         |           | 708.5                      | 710                           | 713.5                       |                     |  |  |
| 5               | QPSK       | 1       | 0         | 22.93                      | 22.95                         | 22.98                       | 24                  |  |  |
| 5               | QPSK       | 1       | 12        | 23.04                      | 23.07                         | 23.09                       |                     |  |  |
| 5               | QPSK       | 1       | 24        | 23.10                      | 23.08                         | 23.07                       |                     |  |  |
| 5               | QPSK       | 12      | 0         | 22.06                      | 22.06                         | 22.09                       |                     |  |  |
| 5               | QPSK       | 12      | 7         | 22.15                      | 22.16                         | 22.19                       | 23                  |  |  |
| 5               | QPSK       | 12      | 13        | 22.16                      | 22.16                         | 22.17                       |                     |  |  |
| 5               | QPSK       | 25      | 0         | 22.14                      | 22.16                         | 22.11                       |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 22.24                      | 22.26                         | 22.27                       |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 22.31                      | 22.31                         | 22.40                       | 23                  |  |  |
| 5               | 16QAM      | 1       | 24        | 22.38                      | 22.43                         | 22.37                       |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 21.07                      | 21.10                         | 21.09                       |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 21.17                      | 21.18                         | 21.18                       |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 21.17                      | 21.16                         | 21.18                       | 22                  |  |  |
| 5               | 16QAM      | 25      | 0         | 21.14                      | 21.17                         | 21.10                       |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 21.18                      | 21.23                         | 21.21                       |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 21.20                      | 21.23                         | 21.26                       |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 21.31                      | 21.31                         | 21.29                       | 22                  |  |  |
| 5               | 64QAM      | 12      | 0         | 20.14                      | 20.16                         | 20.17                       |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 20.22                      | 20.25                         | 20.27                       |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 20.22                      | 20.24                         | 20.25                       |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 20.19                      | 20.20                         | 20.13                       | 21                  |  |  |











| Band 2_Ant 2    |            |         |           |                           |                              |                            |                     |
|-----------------|------------|---------|-----------|---------------------------|------------------------------|----------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq. 18700 | Power Middle Ch. Freq. 18800 | Power High Ch. Freq. 19100 | Tune-up limit (dBm) |
| Channel         |            |         |           | 18600                     | 18800                        | 19000                      |                     |
| Frequency (MHz) |            |         |           | 18600                     | 18800                        | 19000                      |                     |
| 20              | QPSK       | 1       | 0         | 12.56                     | 12.50                        | 12.53                      | 13.5                |
| 20              | QPSK       | 1       | 49        | 12.45                     | 12.48                        | 12.45                      |                     |
| 20              | QPSK       | 1       | 99        | 12.38                     | 12.46                        | 12.41                      |                     |
| 20              | QPSK       | 50      | 0         | 12.54                     | 12.48                        | 12.48                      |                     |
| 20              | QPSK       | 50      | 24        | 12.63                     | 12.56                        | 12.62                      |                     |
| 20              | QPSK       | 50      | 50        | 12.50                     | 12.55                        | 12.52                      | 13.5                |
| 20              | QPSK       | 100     | 0         | 12.51                     | 12.44                        | 12.53                      |                     |
| 20              | 16QAM      | 1       | 0         | 12.91                     | 12.85                        | 12.87                      |                     |
| 20              | 16QAM      | 1       | 49        | 12.79                     | 12.82                        | 12.82                      |                     |
| 20              | 16QAM      | 1       | 99        | 12.73                     | 12.80                        | 12.75                      |                     |
| 20              | 16QAM      | 50      | 0         | 12.55                     | 12.48                        | 12.48                      | 13.5                |
| 20              | 16QAM      | 50      | 24        | 12.61                     | 12.55                        | 12.63                      |                     |
| 20              | 16QAM      | 50      | 50        | 12.52                     | 12.54                        | 12.55                      |                     |
| 20              | 16QAM      | 100     | 0         | 12.52                     | 12.45                        | 12.56                      |                     |
| 20              | 64QAM      | 1       | 0         | 12.84                     | 12.71                        | 12.75                      |                     |
| 20              | 64QAM      | 1       | 49        | 12.68                     | 12.70                        | 12.69                      | 13.5                |
| 20              | 64QAM      | 1       | 99        | 12.64                     | 12.70                        | 12.67                      |                     |
| 20              | 64QAM      | 50      | 0         | 12.56                     | 12.49                        | 12.52                      |                     |
| 20              | 64QAM      | 50      | 24        | 12.64                     | 12.57                        | 12.68                      |                     |
| 20              | 64QAM      | 50      | 50        | 12.52                     | 12.57                        | 12.57                      |                     |
| 20              | 64QAM      | 100     | 0         | 12.54                     | 12.47                        | 12.57                      | Tune-up limit (dBm) |
| Channel         |            |         |           | 18675                     | 18900                        | 19125                      |                     |
| Frequency (MHz) |            |         |           | 1857.5                    | 18800                        | 1902.5                     |                     |
| 15              | QPSK       | 1       | 0         | 12.43                     | 12.53                        | 12.54                      | 13.5                |
| 15              | QPSK       | 1       | 37        | 12.45                     | 12.46                        | 12.48                      |                     |
| 15              | QPSK       | 1       | 74        | 12.31                     | 12.49                        | 12.46                      |                     |
| 15              | QPSK       | 36      | 0         | 12.55                     | 12.49                        | 12.51                      |                     |
| 15              | QPSK       | 36      | 20        | 12.64                     | 12.63                        | 12.55                      |                     |
| 15              | QPSK       | 36      | 39        | 12.58                     | 12.61                        | 12.57                      | 13.5                |
| 15              | QPSK       | 75      | 0         | 12.57                     | 12.51                        | 12.49                      |                     |
| 15              | 16QAM      | 1       | 0         | 12.79                     | 12.85                        | 12.87                      |                     |
| 15              | 16QAM      | 1       | 37        | 12.82                     | 12.85                        | 12.85                      |                     |
| 15              | 16QAM      | 1       | 74        | 12.64                     | 12.82                        | 12.79                      |                     |
| 15              | 16QAM      | 36      | 0         | 12.58                     | 12.50                        | 12.51                      | 13.5                |
| 15              | 16QAM      | 36      | 20        | 12.60                     | 12.66                        | 12.58                      |                     |
| 15              | 16QAM      | 36      | 39        | 12.57                     | 12.60                        | 12.58                      |                     |
| 15              | 16QAM      | 75      | 0         | 12.59                     | 12.52                        | 12.54                      |                     |
| 15              | 64QAM      | 1       | 0         | 12.64                     | 12.72                        | 12.74                      |                     |
| 15              | 64QAM      | 1       | 37        | 12.73                     | 12.72                        | 12.75                      | 13.5                |
| 15              | 64QAM      | 1       | 74        | 12.53                     | 12.73                        | 12.67                      |                     |
| 15              | 64QAM      | 36      | 0         | 12.62                     | 12.54                        | 12.54                      |                     |
| 15              | 64QAM      | 36      | 20        | 12.64                     | 12.68                        | 12.61                      |                     |
| 15              | 64QAM      | 36      | 39        | 12.62                     | 12.64                        | 12.65                      |                     |
| 15              | 64QAM      | 75      | 0         | 12.60                     | 12.53                        | 12.56                      | Tune-up limit (dBm) |
| Channel         |            |         |           | 18650                     | 18900                        | 19150                      |                     |
| Frequency (MHz) |            |         |           | 1855                      | 18800                        | 1905                       |                     |
| 10              | QPSK       | 1       | 0         | 12.10                     | 12.03                        | 12.38                      | 13.5                |
| 10              | QPSK       | 1       | 25        | 12.33                     | 12.33                        | 12.33                      |                     |
| 10              | QPSK       | 1       | 49        | 12.01                     | 12.03                        | 12.32                      |                     |
| 10              | QPSK       | 25      | 0         | 12.34                     | 12.26                        | 12.26                      |                     |
| 10              | QPSK       | 25      | 12        | 12.45                     | 12.37                        | 12.42                      |                     |
| 10              | QPSK       | 25      | 25        | 12.34                     | 12.34                        | 12.33                      | 13.5                |
| 10              | QPSK       | 50      | 0         | 12.37                     | 12.30                        | 12.37                      |                     |
| 10              | 16QAM      | 1       | 0         | 12.48                     | 12.44                        | 12.79                      |                     |
| 10              | 16QAM      | 1       | 25        | 12.70                     | 12.72                        | 12.75                      |                     |
| 10              | 16QAM      | 1       | 49        | 12.36                     | 12.41                        | 12.68                      |                     |
| 10              | 16QAM      | 25      | 0         | 12.37                     | 12.31                        | 12.32                      | 13.5                |
| 10              | 16QAM      | 25      | 12        | 12.45                     | 12.36                        | 12.46                      |                     |
| 10              | 16QAM      | 25      | 25        | 12.33                     | 12.35                        | 12.32                      |                     |
| 10              | 16QAM      | 50      | 0         | 12.36                     | 12.30                        | 12.38                      |                     |
| 10              | 64QAM      | 1       | 0         | 12.38                     | 12.31                        | 12.67                      |                     |
| 10              | 64QAM      | 1       | 25        | 12.67                     | 12.66                        | 12.65                      | 13.5                |
| 10              | 64QAM      | 1       | 49        | 12.29                     | 12.33                        | 12.64                      |                     |
| 10              | 64QAM      | 25      | 0         | 12.41                     | 12.34                        | 12.32                      |                     |
| 10              | 64QAM      | 25      | 12        | 12.52                     | 12.43                        | 12.49                      |                     |
| 10              | 64QAM      | 25      | 25        | 12.38                     | 12.36                        | 12.40                      |                     |
| 10              | 64QAM      | 50      | 0         | 12.40                     | 12.32                        | 12.42                      | Tune-up limit (dBm) |
| Channel         |            |         |           | 18625                     | 18900                        | 19175                      |                     |
| Frequency (MHz) |            |         |           | 1852.5                    | 18800                        | 1907.5                     |                     |
| 5               | QPSK       | 1       | 0         | 12.30                     | 12.22                        | 12.22                      | 13.5                |
| 5               | QPSK       | 1       | 12        | 12.39                     | 12.40                        | 12.33                      |                     |
| 5               | QPSK       | 1       | 24        | 12.27                     | 12.25                        | 12.21                      |                     |
| 5               | QPSK       | 12      | 0         | 12.45                     | 12.37                        | 12.33                      |                     |
| 5               | QPSK       | 12      | 7         | 12.49                     | 12.46                        | 12.42                      |                     |
| 5               | QPSK       | 12      | 13        | 12.44                     | 12.38                        | 12.40                      | 13.5                |
| 5               | QPSK       | 25      | 0         | 12.40                     | 12.37                        | 12.32                      |                     |
| 5               | 16QAM      | 1       | 0         | 12.64                     | 12.55                        | 12.52                      |                     |
| 5               | 16QAM      | 1       | 12        | 12.66                     | 12.65                        | 12.61                      |                     |
| 5               | 16QAM      | 1       | 24        | 12.57                     | 12.58                        | 12.54                      |                     |
| 5               | 16QAM      | 12      | 0         | 12.45                     | 12.35                        | 12.37                      | 13.5                |
| 5               | 16QAM      | 12      | 7         | 12.51                     | 12.47                        | 12.43                      |                     |
| 5               | 16QAM      | 12      | 13        | 12.40                     | 12.44                        | 12.36                      |                     |
| 5               | 16QAM      | 25      | 0         | 12.44                     | 12.44                        | 12.38                      |                     |
| 5               | 64QAM      | 1       | 0         | 12.57                     | 12.48                        | 12.48                      |                     |
| 5               | 64QAM      | 1       | 12        | 12.62                     | 12.61                        | 12.60                      | 13.5                |
| 5               | 64QAM      | 1       | 24        | 12.52                     | 12.48                        | 12.45                      |                     |
| 5               | 64QAM      | 12      | 0         | 12.54                     | 12.46                        | 12.42                      |                     |
| 5               | 64QAM      | 12      | 7         | 12.57                     | 12.58                        | 12.46                      |                     |
| 5               | 64QAM      | 12      | 13        | 12.51                     | 12.46                        | 12.40                      |                     |
| 5               | 64QAM      | 25      | 0         | 12.44                     | 12.46                        | 12.41                      | Tune-up limit (dBm) |
| Channel         |            |         |           | 18615                     | 18900                        | 19185                      |                     |
| Frequency (MHz) |            |         |           | 1851.5                    | 18800                        | 1906.5                     |                     |
| 3               | QPSK       | 1       | 0         | 12.37                     | 12.28                        | 12.31                      | 13.5                |
| 3               | QPSK       | 1       | 8         | 12.44                     | 12.42                        | 12.41                      |                     |
| 3               | QPSK       | 1       | 14        | 12.33                     | 12.33                        | 12.29                      |                     |
| 3               | QPSK       | 8       | 0         | 12.46                     | 12.42                        | 12.45                      |                     |
| 3               | QPSK       | 8       | 4         | 12.52                     | 12.51                        | 12.44                      |                     |
| 3               | QPSK       | 8       | 7         | 12.48                     | 12.41                        | 12.42                      | 13.5                |
| 3               | QPSK       | 15      | 0         | 12.48                     | 12.46                        | 12.44                      |                     |
| 3               | 16QAM      | 1       | 0         | 12.68                     | 12.60                        | 12.63                      |                     |
| 3               | 16QAM      | 1       | 8         | 12.78                     | 12.79                        | 12.73                      |                     |
| 3               | 16QAM      | 1       | 14        | 12.69                     | 12.64                        | 12.59                      |                     |
| 3               | 16QAM      | 8       | 0         | 12.55                     | 12.44                        | 12.48                      | 13.5                |
| 3               | 16QAM      | 8       | 4         | 12.53                     | 12.55                        | 12.47                      |                     |
| 3               | 16QAM      | 8       | 7         | 12.51                     | 12.45                        | 12.48                      |                     |
| 3               | 16QAM      | 15      | 0         | 12.51                     | 12.45                        | 12.47                      |                     |
| 3               | 64QAM      | 1       | 0         | 12.63                     | 12.56                        | 12.57                      |                     |
| 3               | 64QAM      | 1       | 8         | 12.75                     | 12.69                        | 12.64                      | 13.5                |
| 3               | 64QAM      | 1       | 14        | 12.62                     | 12.58                        | 12.50                      |                     |
| 3               | 64QAM      | 8       | 0         | 12.53                     | 12.45                        | 12.50                      |                     |
| 3               | 64QAM      | 8       | 4         | 12.60                     | 12.55                        | 12.54                      |                     |
| 3               | 64QAM      | 8       | 7         | 12.50                     | 12.49                        | 12.40                      |                     |
| 3               | 64QAM      | 15      | 0         | 12.53                     | 12.45                        | 12.48                      | Tune-up limit (dBm) |
| Channel         |            |         |           | 18607                     | 18900                        | 19193                      |                     |
| Frequency (MHz) |            |         |           | 1850.7                    | 18800                        | 1906.3                     |                     |
| 1.4             | QPSK       | 1       | 0         | 12.28                     | 12.29                        | 12.22                      | 13.5                |
| 1.4             | QPSK       | 1       | 3         | 12.35                     | 12.34                        | 12.31                      |                     |
| 1.4             | QPSK       | 1       | 5         | 12.29                     | 12.25                        | 12.29                      |                     |
| 1.4             | QPSK       | 3       | 0         | 12.35                     | 12.33                        | 12.22                      |                     |
| 1.4             | QPSK       | 3       | 1         | 12.33                     | 12.30                        | 12.25                      |                     |
| 1.4             | QPSK       | 3       | 3         | 12.31                     | 12.27                        | 12.26                      | 13.5                |
| 1.4             | QPSK       | 6       | 0         | 12.38                     | 12.36                        | 12.34                      |                     |
| 1.4             | 16QAM      | 1       | 0         | 12.64                     | 12.62                        | 12.56                      |                     |
| 1.4             | 16QAM      | 1       | 3         | 12.73                     | 12.68                        | 12.66                      |                     |
| 1.4             | 16QAM      | 1       | 5         | 12.67                     | 12.62                        | 12.55                      |                     |
| 1.4             | 16QAM      | 3       | 0         | 12.40                     | 12.38                        | 12.33                      | 13.5                |
| 1.4             | 16QAM      | 3       | 1         | 12.45                     | 12.43                        | 12.40                      |                     |
| 1.4             | 16QAM      | 3       | 3         | 12.39                     | 12.39                        | 12.34                      |                     |
| 1.4             | 16QAM      | 6       | 0         | 12.46                     | 12.50                        | 12.44                      |                     |
| 1.4             | 64QAM      | 1       | 0         | 12.58                     | 12.52                        | 12.53                      |                     |
| 1.4             | 64QAM      | 1       | 3         | 12.66                     | 12.59                        | 12.55                      | 13.5                |
| 1.4             | 64QAM      | 1       | 5         | 12.54                     | 12.54                        | 12.49                      |                     |
| 1.4             | 64QAM      | 3       | 0         | 12.58                     | 12.51                        | 12.46                      |                     |
| 1.4             | 64QAM      | 3       | 1         | 12.61                     | 12.58                        | 12.50                      |                     |
| 1.4             | 64QAM      | 3       | 3         | 12.53                     | 12.52                        | 12.46                      |                     |
| 1.4             | 64QAM      | 6       | 0         | 12.41                     | 12.41                        | 12.37                      | 13.5                |



| Band 5_Ant 0    |            |         |           |                       |                          |                        |                     |  |  |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|--|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 20460                 | 20525                    | 20600                  |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 22.47                 | 22.48                    | 22.56                  | 23.5                |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 22.43                 | 22.45                    | 22.56                  |                     |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 22.47                 | 22.48                    | 22.46                  |                     |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 22.53                 | 22.53                    | 22.62                  | 23.5                |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 22.62                 | 22.61                    | 22.59                  |                     |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 22.56                 | 22.56                    | 22.62                  |                     |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 22.53                 | 22.53                    | 22.52                  | 23.5                |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 22.85                 | 22.86                    | 22.92                  |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 22.81                 | 22.85                    | 22.88                  |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 22.85                 | 22.84                    | 22.82                  | 23                  |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.05                 | 22.06                    | 22.09                  |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.16                 | 22.14                    | 22.08                  |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 22.11                 | 22.12                    | 22.09                  | 22                  |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.04                 | 22.07                    | 21.97                  |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 22.20                 | 22.22                    | 22.27                  |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 22.26                 | 22.29                    | 22.30                  | 22                  |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 22.23                 | 22.25                    | 22.21                  |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.09                 | 21.08                    | 21.12                  |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 21.20                 | 21.18                    | 21.14                  | 22                  |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 21.14                 | 21.13                    | 21.12                  |                     |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 21.09                 | 21.10                    | 21.03                  |                     |  |  |  |  |
| Channel         |            |         |           | 20455                 | 20525                    | 20605                  | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 826.5                 | 836.5                    | 844.5                  |                     |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 22.37                 | 22.40                    | 22.45                  | 23.5                |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 22.51                 | 22.53                    | 22.57                  |                     |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 22.44                 | 22.46                    | 22.45                  |                     |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 22.52                 | 22.50                    | 22.56                  | 23.5                |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 22.62                 | 22.61                    | 22.68                  |                     |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 22.59                 | 22.58                    | 22.60                  |                     |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 22.59                 | 22.57                    | 22.62                  | 23.5                |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 22.73                 | 22.72                    | 22.73                  |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 22.75                 | 22.76                    | 22.84                  |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 22.76                 | 22.80                    | 22.80                  | 23                  |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.05                 | 22.07                    | 22.05                  |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.14                 | 22.18                    | 22.13                  |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 22.11                 | 22.13                    | 22.10                  | 22                  |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.08                 | 22.11                    | 22.09                  |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 22.13                 | 22.14                    | 22.13                  |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 22.20                 | 22.22                    | 22.21                  | 22                  |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 22.16                 | 22.19                    | 22.14                  |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.09                 | 21.12                    | 21.11                  |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 21.20                 | 21.23                    | 21.20                  | 22                  |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 21.17                 | 21.19                    | 21.15                  |                     |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 21.15                 | 21.14                    | 21.12                  |                     |  |  |  |  |
| Channel         |            |         |           | 20415                 | 20525                    | 20635                  | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 825.5                 | 836.5                    | 847.5                  |                     |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 22.41                 | 22.40                    | 22.44                  | 23.5                |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 22.55                 | 22.57                    | 22.57                  |                     |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 22.59                 | 22.47                    | 22.52                  |                     |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 22.52                 | 22.53                    | 22.55                  | 23.5                |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 22.62                 | 22.62                    | 22.65                  |                     |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 22.58                 | 22.61                    | 22.59                  |                     |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 22.59                 | 22.58                    | 22.54                  | 23.5                |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 22.71                 | 22.77                    | 22.77                  |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 22.91                 | 22.86                    | 22.87                  |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 22.85                 | 22.82                    | 22.83                  | 23                  |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 22.10                 | 22.12                    | 22.10                  |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 22.18                 | 22.20                    | 22.19                  |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 22.16                 | 22.17                    | 22.15                  | 22                  |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 22.14                 | 22.17                    | 22.07                  |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 22.16                 | 22.14                    | 22.15                  |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 8         | 22.25                 | 22.32                    | 22.27                  | 22                  |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 22.21                 | 22.23                    | 22.19                  |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 21.13                 | 21.14                    | 21.12                  |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 21.21                 | 21.20                    | 21.20                  | 22                  |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 21.20                 | 21.18                    | 21.18                  |                     |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 21.14                 | 21.15                    | 21.07                  |                     |  |  |  |  |
| Channel         |            |         |           | 20407                 | 20525                    | 20643                  | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 824.7                 | 836.5                    | 848.3                  |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 22.36                 | 22.41                    | 22.47                  | 23.5                |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 22.49                 | 22.51                    | 22.52                  |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 22.41                 | 22.40                    | 22.45                  |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 22.45                 | 22.44                    | 22.46                  | 23.5                |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 22.47                 | 22.49                    | 22.49                  |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 22.46                 | 22.46                    | 22.47                  |                     |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 22.53                 | 22.54                    | 22.53                  | 23.5                |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 22.70                 | 22.69                    | 22.74                  |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 22.81                 | 22.85                    | 22.78                  |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 22.75                 | 22.79                    | 22.71                  | 23.5                |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 22.53                 | 22.49                    | 22.54                  |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 22.56                 | 22.57                    | 22.57                  |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 22.53                 | 22.49                    | 22.52                  | 23                  |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.13                 | 22.14                    | 22.11                  |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 0         | 22.12                 | 22.17                    | 22.13                  |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 22.22                 | 22.22                    | 22.19                  | 23                  |  |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.14                 | 22.18                    | 22.14                  |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.15                 | 22.17                    | 22.13                  |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.21                 | 22.22                    | 22.18                  | 22                  |  |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.17                 | 22.17                    | 22.12                  |                     |  |  |  |  |
| 1.4             | 64QAM      | 6       | 0         | 21.07                 | 21.06                    | 21.03                  |                     |  |  |  |  |



| Band 7_Ant 2    |            |         |           |                                   |                                      |                                    |                          |
|-----------------|------------|---------|-----------|-----------------------------------|--------------------------------------|------------------------------------|--------------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq.<br>20850 | Power Middle<br>Ch. / Freq.<br>21100 | Power High<br>Ch. / Freq.<br>21350 | Tune-up<br>limit<br>(dB) |
| Channel         |            |         |           | 2510                              | 2535                                 | 2560                               |                          |
| Frequency (MHz) |            |         |           |                                   |                                      |                                    |                          |
| 20              | QPSK       | 1       | 0         | 11.50                             | 11.55                                | 11.56                              | 12.5                     |
| 20              | QPSK       | 1       | 49        | 11.51                             | 11.61                                | 11.61                              |                          |
| 20              | QPSK       | 1       | 99        | 11.59                             | 11.65                                | 11.67                              |                          |
| 20              | QPSK       | 50      | 0         | 11.62                             | 11.70                                | 11.66                              | 12.5                     |
| 20              | QPSK       | 50      | 24        | 11.70                             | 11.75                                | 11.72                              |                          |
| 20              | QPSK       | 50      | 50        | 11.70                             | 11.77                                | 11.78                              |                          |
| 20              | QPSK       | 100     | 0         | 11.61                             | 11.60                                | 11.62                              | 12.5                     |
| 20              | 16QAM      | 1       | 0         | 11.66                             | 11.91                                | 11.96                              |                          |
| 20              | 16QAM      | 1       | 49        | 11.89                             | 12.02                                | 12.01                              |                          |
| 20              | 16QAM      | 1       | 99        | 11.94                             | 12.05                                | 12.02                              | 12.5                     |
| 20              | 16QAM      | 50      | 0         | 11.63                             | 11.69                                | 11.70                              |                          |
| 20              | 16QAM      | 50      | 24        | 11.72                             | 11.71                                | 11.73                              |                          |
| 20              | 16QAM      | 50      | 50        | 11.75                             | 11.84                                | 11.80                              | 12.5                     |
| 20              | 16QAM      | 100     | 0         | 11.62                             | 11.62                                | 11.63                              |                          |
| 20              | 64QAM      | 1       | 0         | 11.70                             | 11.89                                | 11.78                              |                          |
| 20              | 64QAM      | 1       | 49        | 11.72                             | 11.85                                | 11.88                              | 12.5                     |
| 20              | 64QAM      | 1       | 99        | 11.84                             | 11.91                                | 11.94                              |                          |
| 20              | 64QAM      | 50      | 0         | 11.64                             | 11.73                                | 11.70                              |                          |
| 20              | 64QAM      | 50      | 24        | 11.76                             | 11.75                                | 11.79                              | 12.5                     |
| 20              | 64QAM      | 50      | 50        | 11.75                             | 11.82                                | 11.86                              |                          |
| 20              | 64QAM      | 100     | 0         | 11.63                             | 11.64                                | 11.62                              |                          |
| Channel         |            |         |           | 20825                             | 21100                                | 21375                              | Tune-up<br>limit<br>(dB) |
| Frequency (MHz) |            |         |           | 2507.5                            | 2535                                 | 2562.5                             |                          |
| 15              | QPSK       | 1       | 0         | 11.52                             | 11.56                                | 11.59                              | 12.5                     |
| 15              | QPSK       | 1       | 37        | 11.52                             | 11.57                                | 11.60                              |                          |
| 15              | QPSK       | 1       | 74        | 11.62                             | 11.65                                | 11.67                              |                          |
| 15              | QPSK       | 36      | 0         | 11.62                             | 11.66                                | 11.69                              | 12.5                     |
| 15              | QPSK       | 36      | 20        | 11.73                             | 11.71                                | 11.72                              |                          |
| 15              | QPSK       | 36      | 39        | 11.75                             | 11.81                                | 11.79                              |                          |
| 15              | QPSK       | 75      | 0         | 11.64                             | 11.61                                | 11.62                              | 12.5                     |
| 15              | 16QAM      | 1       | 0         | 11.68                             | 11.95                                | 11.93                              |                          |
| 15              | 16QAM      | 1       | 37        | 11.95                             | 12.04                                | 11.97                              |                          |
| 15              | 16QAM      | 1       | 74        | 11.96                             | 12.03                                | 12.01                              | 12.5                     |
| 15              | 16QAM      | 36      | 0         | 11.65                             | 11.72                                | 11.72                              |                          |
| 15              | 16QAM      | 36      | 20        | 11.73                             | 11.74                                | 11.73                              |                          |
| 15              | 16QAM      | 36      | 39        | 11.72                             | 11.79                                | 11.76                              | 12.5                     |
| 15              | 16QAM      | 75      | 0         | 11.66                             | 11.66                                | 11.65                              |                          |
| 15              | 64QAM      | 1       | 0         | 11.72                             | 11.79                                | 11.76                              |                          |
| 15              | 64QAM      | 1       | 37        | 11.79                             | 11.90                                | 11.87                              | 12.5                     |
| 15              | 64QAM      | 1       | 74        | 11.86                             | 11.93                                | 11.90                              |                          |
| 15              | 64QAM      | 36      | 0         | 11.65                             | 11.73                                | 11.71                              |                          |
| 15              | 64QAM      | 36      | 20        | 11.77                             | 11.75                                | 11.76                              | 12.5                     |
| 15              | 64QAM      | 36      | 39        | 11.61                             | 11.84                                | 11.85                              |                          |
| 15              | 64QAM      | 75      | 0         | 11.67                             | 11.68                                | 11.67                              |                          |
| Channel         |            |         |           | 20800                             | 21100                                | 21400                              | Tune-up<br>limit<br>(dB) |
| Frequency (MHz) |            |         |           | 2505                              | 2535                                 | 2565                               |                          |
| 10              | QPSK       | 1       | 0         | 11.33                             | 11.45                                | 11.41                              | 12.5                     |
| 10              | QPSK       | 1       | 25        | 11.38                             | 11.50                                | 11.44                              |                          |
| 10              | QPSK       | 1       | 49        | 11.45                             | 11.56                                | 11.48                              |                          |
| 10              | QPSK       | 25      | 0         | 11.39                             | 11.45                                | 11.48                              | 12.5                     |
| 10              | QPSK       | 25      | 12        | 11.52                             | 11.51                                | 11.52                              |                          |
| 10              | QPSK       | 25      | 25        | 11.51                             | 11.57                                | 11.58                              |                          |
| 10              | QPSK       | 50      | 0         | 11.43                             | 11.40                                | 11.40                              | 12.5                     |
| 10              | 16QAM      | 1       | 0         | 11.74                             | 11.77                                | 11.80                              |                          |
| 10              | 16QAM      | 1       | 25        | 11.79                             | 11.84                                | 11.84                              |                          |
| 10              | 16QAM      | 1       | 49        | 11.82                             | 11.89                                | 11.88                              | 12.5                     |
| 10              | 16QAM      | 25      | 0         | 11.47                             | 11.55                                | 11.53                              |                          |
| 10              | 16QAM      | 25      | 12        | 11.56                             | 11.59                                | 11.54                              |                          |
| 10              | 16QAM      | 25      | 25        | 11.53                             | 11.60                                | 11.62                              | 12.5                     |
| 10              | 16QAM      | 50      | 0         | 11.41                             | 11.44                                | 11.39                              |                          |
| 10              | 64QAM      | 1       | 0         | 11.59                             | 11.62                                | 11.65                              |                          |
| 10              | 64QAM      | 1       | 25        | 11.71                             | 11.77                                | 11.79                              | 12.5                     |
| 10              | 64QAM      | 1       | 49        | 11.70                             | 11.81                                | 11.76                              |                          |
| 10              | 64QAM      | 25      | 0         | 11.45                             | 11.50                                | 11.52                              |                          |
| 10              | 64QAM      | 25      | 12        | 11.58                             | 11.57                                | 11.56                              | 12.5                     |
| 10              | 64QAM      | 25      | 25        | 11.55                             | 11.61                                | 11.65                              |                          |
| 10              | 64QAM      | 50      | 0         | 11.46                             | 11.42                                | 11.42                              |                          |
| Channel         |            |         |           | 20775                             | 21100                                | 21425                              | Tune-up<br>limit<br>(dB) |
| Frequency (MHz) |            |         |           | 2502.5                            | 2535                                 | 2567.5                             |                          |
| 5               | QPSK       | 1       | 0         | 11.33                             | 11.46                                | 11.44                              | 12.5                     |
| 5               | QPSK       | 1       | 12        | 11.41                             | 11.45                                | 11.50                              |                          |
| 5               | QPSK       | 1       | 24        | 11.42                             | 11.62                                | 11.48                              |                          |
| 5               | QPSK       | 12      | 0         | 11.41                             | 11.47                                | 11.50                              | 12.5                     |
| 5               | QPSK       | 12      | 7         | 11.55                             | 11.55                                | 11.58                              |                          |
| 5               | QPSK       | 12      | 13        | 11.51                             | 11.54                                | 11.55                              |                          |
| 5               | QPSK       | 25      | 0         | 11.46                             | 11.44                                | 11.54                              | 12.5                     |
| 5               | 16QAM      | 1       | 0         | 11.69                             | 11.67                                | 11.80                              |                          |
| 5               | 16QAM      | 1       | 12        | 11.73                             | 11.65                                | 11.77                              |                          |
| 5               | 16QAM      | 1       | 24        | 11.77                             | 11.83                                | 11.87                              | 12.5                     |
| 5               | 16QAM      | 12      | 0         | 11.43                             | 11.48                                | 11.54                              |                          |
| 5               | 16QAM      | 12      | 7         | 11.56                             | 11.55                                | 11.59                              |                          |
| 5               | 16QAM      | 12      | 13        | 11.52                             | 11.58                                | 11.55                              | 12.5                     |
| 5               | 16QAM      | 25      | 0         | 11.48                             | 11.51                                | 11.56                              |                          |
| 5               | 64QAM      | 1       | 0         | 11.63                             | 11.65                                | 11.79                              |                          |
| 5               | 64QAM      | 1       | 12        | 11.67                             | 11.67                                | 11.73                              | 12.5                     |
| 5               | 64QAM      | 1       | 24        | 11.75                             | 11.71                                | 11.80                              |                          |
| 5               | 64QAM      | 12      | 0         | 11.49                             | 11.53                                | 11.59                              |                          |
| 5               | 64QAM      | 12      | 7         | 11.65                             | 11.58                                | 11.63                              | 12.5                     |
| 5               | 64QAM      | 12      | 13        | 11.61                             | 11.61                                | 11.59                              |                          |
| 5               | 64QAM      | 25      | 0         | 11.52                             | 11.50                                | 11.58                              |                          |











| Band 2_Ant 2    |            |         |           |                           |                              |                            |                     |
|-----------------|------------|---------|-----------|---------------------------|------------------------------|----------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq. 18700 | Power Middle Ch. Freq. 18800 | Power High Ch. Freq. 19100 | Tune-up limit (dBm) |
| Channel         |            |         |           | 18600                     | 18800                        | 19000                      |                     |
| Frequency (MHz) |            |         |           | 18600                     | 18800                        | 19000                      |                     |
| 20              | QPSK       | 1       | 0         | 12.56                     | 12.50                        | 12.53                      | 14                  |
| 20              | QPSK       | 1       | 49        | 12.45                     | 12.48                        | 12.45                      |                     |
| 20              | QPSK       | 1       | 99        | 12.38                     | 12.46                        | 12.41                      |                     |
| 20              | QPSK       | 50      | 0         | 12.54                     | 12.48                        | 12.48                      |                     |
| 20              | QPSK       | 50      | 24        | 12.63                     | 12.56                        | 12.62                      |                     |
| 20              | QPSK       | 50      | 50        | 12.50                     | 12.55                        | 12.52                      | 14                  |
| 20              | QPSK       | 100     | 0         | 12.51                     | 12.44                        | 12.53                      |                     |
| 20              | 16QAM      | 1       | 0         | 12.91                     | 12.85                        | 12.87                      |                     |
| 20              | 16QAM      | 1       | 49        | 12.79                     | 12.82                        | 12.82                      |                     |
| 20              | 16QAM      | 1       | 99        | 12.73                     | 12.80                        | 12.75                      |                     |
| 20              | 16QAM      | 50      | 0         | 12.55                     | 12.48                        | 12.48                      | 14                  |
| 20              | 16QAM      | 50      | 24        | 12.61                     | 12.55                        | 12.63                      |                     |
| 20              | 16QAM      | 50      | 50        | 12.52                     | 12.54                        | 12.55                      |                     |
| 20              | 16QAM      | 100     | 0         | 12.52                     | 12.45                        | 12.56                      |                     |
| 20              | 64QAM      | 1       | 0         | 12.84                     | 12.71                        | 12.75                      |                     |
| 20              | 64QAM      | 1       | 49        | 12.68                     | 12.70                        | 12.69                      | 14                  |
| 20              | 64QAM      | 1       | 99        | 12.64                     | 12.70                        | 12.67                      |                     |
| 20              | 64QAM      | 50      | 0         | 12.56                     | 12.49                        | 12.52                      |                     |
| 20              | 64QAM      | 50      | 24        | 12.64                     | 12.57                        | 12.68                      |                     |
| 20              | 64QAM      | 50      | 50        | 12.52                     | 12.57                        | 12.57                      |                     |
| 20              | 64QAM      | 100     | 0         | 12.54                     | 12.47                        | 12.57                      | Tune-up limit (dBm) |
| Channel         |            |         |           | 18675                     | 18900                        | 19125                      |                     |
| Frequency (MHz) |            |         |           | 1857.5                    | 18800                        | 1902.5                     |                     |
| 15              | QPSK       | 1       | 0         | 12.43                     | 12.53                        | 12.54                      | 14                  |
| 15              | QPSK       | 1       | 37        | 12.45                     | 12.46                        | 12.48                      |                     |
| 15              | QPSK       | 1       | 74        | 12.31                     | 12.49                        | 12.46                      |                     |
| 15              | QPSK       | 36      | 0         | 12.55                     | 12.49                        | 12.51                      |                     |
| 15              | QPSK       | 36      | 20        | 12.64                     | 12.63                        | 12.55                      |                     |
| 15              | QPSK       | 36      | 39        | 12.58                     | 12.61                        | 12.57                      | 14                  |
| 15              | QPSK       | 75      | 0         | 12.57                     | 12.51                        | 12.49                      |                     |
| 15              | 16QAM      | 1       | 0         | 12.79                     | 12.85                        | 12.87                      |                     |
| 15              | 16QAM      | 1       | 37        | 12.82                     | 12.85                        | 12.85                      |                     |
| 15              | 16QAM      | 1       | 74        | 12.64                     | 12.82                        | 12.79                      |                     |
| 15              | 16QAM      | 36      | 0         | 12.58                     | 12.50                        | 12.51                      | 14                  |
| 15              | 16QAM      | 36      | 20        | 12.60                     | 12.66                        | 12.58                      |                     |
| 15              | 16QAM      | 36      | 39        | 12.57                     | 12.60                        | 12.58                      |                     |
| 15              | 16QAM      | 75      | 0         | 12.59                     | 12.52                        | 12.54                      |                     |
| 15              | 64QAM      | 1       | 0         | 12.64                     | 12.72                        | 12.74                      |                     |
| 15              | 64QAM      | 1       | 37        | 12.73                     | 12.72                        | 12.75                      | 14                  |
| 15              | 64QAM      | 1       | 74        | 12.53                     | 12.73                        | 12.67                      |                     |
| 15              | 64QAM      | 36      | 0         | 12.62                     | 12.54                        | 12.54                      |                     |
| 15              | 64QAM      | 36      | 20        | 12.64                     | 12.68                        | 12.61                      |                     |
| 15              | 64QAM      | 36      | 39        | 12.62                     | 12.64                        | 12.65                      |                     |
| 15              | 64QAM      | 75      | 0         | 12.60                     | 12.53                        | 12.56                      | Tune-up limit (dBm) |
| Channel         |            |         |           | 18650                     | 18900                        | 19150                      |                     |
| Frequency (MHz) |            |         |           | 1855                      | 18800                        | 1905                       |                     |
| 10              | QPSK       | 1       | 0         | 12.10                     | 12.03                        | 12.38                      | 14                  |
| 10              | QPSK       | 1       | 25        | 12.33                     | 12.33                        | 12.33                      |                     |
| 10              | QPSK       | 1       | 49        | 12.01                     | 12.03                        | 12.32                      |                     |
| 10              | QPSK       | 25      | 0         | 12.34                     | 12.26                        | 12.26                      |                     |
| 10              | QPSK       | 25      | 12        | 12.45                     | 12.37                        | 12.42                      |                     |
| 10              | QPSK       | 25      | 25        | 12.34                     | 12.34                        | 12.33                      | 14                  |
| 10              | QPSK       | 50      | 0         | 12.37                     | 12.30                        | 12.37                      |                     |
| 10              | 16QAM      | 1       | 0         | 12.48                     | 12.44                        | 12.79                      |                     |
| 10              | 16QAM      | 1       | 25        | 12.70                     | 12.72                        | 12.75                      |                     |
| 10              | 16QAM      | 1       | 49        | 12.36                     | 12.41                        | 12.68                      |                     |
| 10              | 16QAM      | 25      | 0         | 12.37                     | 12.31                        | 12.32                      | 14                  |
| 10              | 16QAM      | 25      | 12        | 12.45                     | 12.36                        | 12.46                      |                     |
| 10              | 16QAM      | 25      | 25        | 12.33                     | 12.35                        | 12.32                      |                     |
| 10              | 16QAM      | 50      | 0         | 12.36                     | 12.30                        | 12.38                      |                     |
| 10              | 64QAM      | 1       | 0         | 12.38                     | 12.31                        | 12.67                      |                     |
| 10              | 64QAM      | 1       | 25        | 12.67                     | 12.66                        | 12.65                      | 14                  |
| 10              | 64QAM      | 1       | 49        | 12.29                     | 12.33                        | 12.64                      |                     |
| 10              | 64QAM      | 25      | 0         | 12.41                     | 12.34                        | 12.32                      |                     |
| 10              | 64QAM      | 25      | 12        | 12.52                     | 12.43                        | 12.49                      |                     |
| 10              | 64QAM      | 25      | 25        | 12.38                     | 12.36                        | 12.40                      |                     |
| 10              | 64QAM      | 50      | 0         | 12.40                     | 12.32                        | 12.42                      | Tune-up limit (dBm) |
| Channel         |            |         |           | 18625                     | 18900                        | 19175                      |                     |
| Frequency (MHz) |            |         |           | 1852.5                    | 18800                        | 1907.5                     |                     |
| 5               | QPSK       | 1       | 0         | 12.30                     | 12.22                        | 12.22                      | 14                  |
| 5               | QPSK       | 1       | 12        | 12.39                     | 12.40                        | 12.33                      |                     |
| 5               | QPSK       | 1       | 24        | 12.27                     | 12.25                        | 12.21                      |                     |
| 5               | QPSK       | 12      | 0         | 12.45                     | 12.37                        | 12.33                      |                     |
| 5               | QPSK       | 12      | 7         | 12.49                     | 12.46                        | 12.42                      |                     |
| 5               | QPSK       | 12      | 13        | 12.44                     | 12.38                        | 12.40                      | 14                  |
| 5               | QPSK       | 25      | 0         | 12.40                     | 12.37                        | 12.32                      |                     |
| 5               | 16QAM      | 1       | 0         | 12.64                     | 12.55                        | 12.52                      |                     |
| 5               | 16QAM      | 1       | 12        | 12.66                     | 12.65                        | 12.61                      |                     |
| 5               | 16QAM      | 1       | 24        | 12.57                     | 12.58                        | 12.54                      |                     |
| 5               | 16QAM      | 12      | 0         | 12.45                     | 12.35                        | 12.37                      | 14                  |
| 5               | 16QAM      | 12      | 7         | 12.51                     | 12.47                        | 12.43                      |                     |
| 5               | 16QAM      | 12      | 13        | 12.40                     | 12.44                        | 12.36                      |                     |
| 5               | 16QAM      | 25      | 0         | 12.44                     | 12.44                        | 12.38                      |                     |
| 5               | 64QAM      | 1       | 0         | 12.57                     | 12.48                        | 12.48                      |                     |
| 5               | 64QAM      | 1       | 12        | 12.62                     | 12.61                        | 12.60                      | 14                  |
| 5               | 64QAM      | 1       | 24        | 12.52                     | 12.48                        | 12.45                      |                     |
| 5               | 64QAM      | 12      | 0         | 12.54                     | 12.46                        | 12.42                      |                     |
| 5               | 64QAM      | 12      | 7         | 12.57                     | 12.58                        | 12.46                      |                     |
| 5               | 64QAM      | 12      | 13        | 12.51                     | 12.46                        | 12.49                      |                     |
| 5               | 64QAM      | 25      | 0         | 12.44                     | 12.46                        | 12.41                      | Tune-up limit (dBm) |
| Channel         |            |         |           | 18615                     | 18900                        | 19185                      |                     |
| Frequency (MHz) |            |         |           | 1851.5                    | 18800                        | 1906.5                     |                     |
| 3               | QPSK       | 1       | 0         | 12.37                     | 12.28                        | 12.31                      | 14                  |
| 3               | QPSK       | 1       | 8         | 12.44                     | 12.42                        | 12.41                      |                     |
| 3               | QPSK       | 1       | 14        | 12.33                     | 12.33                        | 12.29                      |                     |
| 3               | QPSK       | 8       | 0         | 12.46                     | 12.42                        | 12.45                      |                     |
| 3               | QPSK       | 8       | 4         | 12.52                     | 12.51                        | 12.44                      |                     |
| 3               | QPSK       | 8       | 7         | 12.48                     | 12.41                        | 12.42                      | 14                  |
| 3               | QPSK       | 15      | 0         | 12.48                     | 12.46                        | 12.44                      |                     |
| 3               | 16QAM      | 1       | 0         | 12.68                     | 12.60                        | 12.63                      |                     |
| 3               | 16QAM      | 1       | 8         | 12.78                     | 12.79                        | 12.73                      |                     |
| 3               | 16QAM      | 1       | 14        | 12.69                     | 12.64                        | 12.59                      |                     |
| 3               | 16QAM      | 8       | 0         | 12.55                     | 12.44                        | 12.48                      | 14                  |
| 3               | 16QAM      | 8       | 4         | 12.53                     | 12.55                        | 12.47                      |                     |
| 3               | 16QAM      | 8       | 7         | 12.51                     | 12.45                        | 12.48                      |                     |
| 3               | 16QAM      | 15      | 0         | 12.51                     | 12.45                        | 12.47                      |                     |
| 3               | 64QAM      | 1       | 0         | 12.63                     | 12.56                        | 12.57                      |                     |
| 3               | 64QAM      | 1       | 8         | 12.75                     | 12.69                        | 12.64                      | 14                  |
| 3               | 64QAM      | 1       | 14        | 12.62                     | 12.58                        | 12.50                      |                     |
| 3               | 64QAM      | 8       | 0         | 12.53                     | 12.45                        | 12.50                      |                     |
| 3               | 64QAM      | 8       | 4         | 12.60                     | 12.55                        | 12.54                      |                     |
| 3               | 64QAM      | 8       | 7         | 12.50                     | 12.49                        | 12.49                      |                     |
| 3               | 64QAM      | 15      | 0         | 12.53                     | 12.45                        | 12.48                      | Tune-up limit (dBm) |
| Channel         |            |         |           | 18607                     | 18900                        | 19193                      |                     |
| Frequency (MHz) |            |         |           | 1850.7                    | 18800                        | 1906.3                     |                     |
| 1.4             | QPSK       | 1       | 0         | 12.28                     | 12.29                        | 12.22                      | 14                  |
| 1.4             | QPSK       | 1       | 3         | 12.35                     | 12.34                        | 12.31                      |                     |
| 1.4             | QPSK       | 1       | 5         | 12.29                     | 12.25                        | 12.29                      |                     |
| 1.4             | QPSK       | 3       | 0         | 12.35                     | 12.33                        | 12.22                      |                     |
| 1.4             | QPSK       | 3       | 1         | 12.33                     | 12.30                        | 12.25                      |                     |
| 1.4             | QPSK       | 3       | 3         | 12.31                     | 12.27                        | 12.26                      | 14                  |
| 1.4             | QPSK       | 6       | 0         | 12.38                     | 12.36                        | 12.34                      |                     |
| 1.4             | 16QAM      | 1       | 0         | 12.64                     | 12.62                        | 12.56                      |                     |
| 1.4             | 16QAM      | 1       | 3         | 12.73                     | 12.68                        | 12.66                      |                     |
| 1.4             | 16QAM      | 1       | 5         | 12.67                     | 12.62                        | 12.55                      |                     |
| 1.4             | 16QAM      | 3       | 0         | 12.40                     | 12.38                        | 12.33                      | 14                  |
| 1.4             | 16QAM      | 3       | 1         | 12.45                     | 12.43                        | 12.40                      |                     |
| 1.4             | 16QAM      | 3       | 3         | 12.39                     | 12.39                        | 12.34                      |                     |
| 1.4             | 16QAM      | 6       | 0         | 12.46                     | 12.50                        | 12.44                      |                     |
| 1.4             | 64QAM      | 1       | 0         | 12.58                     | 12.52                        | 12.53                      |                     |
| 1.4             | 64QAM      | 1       | 3         | 12.66                     | 12.59                        | 12.55                      | 14                  |
| 1.4             | 64QAM      | 1       | 5         | 12.54                     | 12.54                        | 12.49                      |                     |
| 1.4             | 64QAM      | 3       | 0         | 12.58                     | 12.51                        | 12.46                      |                     |
| 1.4             | 64QAM      | 3       | 1         | 12.61                     | 12.58                        | 12.50                      |                     |
| 1.4             | 64QAM      | 3       | 3         | 12.53                     | 12.52                        | 12.46                      |                     |
| 1.4             | 64QAM      | 6       | 0         | 12.41                     | 12.41                        | 12.37                      | 14                  |



| Band 5_Ant 2    |            |         |           |                       |                          |                        |                     |  |  |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|--|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 20450                 | 20525                    | 20600                  |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 22.47                 | 22.48                    | 22.56                  | 24                  |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 22.43                 | 22.45                    | 22.56                  |                     |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 22.47                 | 22.46                    | 22.46                  |                     |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 22.53                 | 22.53                    | 22.62                  | 24                  |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 22.62                 | 22.61                    | 22.59                  |                     |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 22.56                 | 22.56                    | 22.62                  |                     |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 22.53                 | 22.53                    | 22.52                  | 24                  |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 22.85                 | 22.86                    | 22.92                  |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 22.81                 | 22.85                    | 22.88                  |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 22.85                 | 22.84                    | 22.82                  | 23                  |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.05                 | 22.06                    | 22.09                  |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.16                 | 22.14                    | 22.08                  |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 22.11                 | 22.12                    | 22.09                  | 23                  |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.04                 | 22.07                    | 21.97                  |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 22.20                 | 22.22                    | 22.27                  |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 22.26                 | 22.29                    | 22.30                  | 23                  |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 22.23                 | 22.25                    | 22.21                  |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.09                 | 21.08                    | 21.12                  |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 21.20                 | 21.18                    | 21.14                  | 22                  |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 21.14                 | 21.13                    | 21.12                  |                     |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 21.09                 | 21.10                    | 21.03                  |                     |  |  |  |  |
| Channel         |            |         |           | 20425                 | 20525                    | 20625                  | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 826.5                 | 836.5                    | 846.5                  |                     |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 22.37                 | 22.40                    | 22.45                  | 24                  |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 22.51                 | 22.53                    | 22.57                  |                     |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 22.44                 | 22.46                    | 22.45                  |                     |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 22.52                 | 22.50                    | 22.56                  | 24                  |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 22.62                 | 22.61                    | 22.68                  |                     |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 22.59                 | 22.58                    | 22.60                  |                     |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 22.59                 | 22.57                    | 22.62                  | 24                  |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 22.73                 | 22.72                    | 22.73                  |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 22.75                 | 22.76                    | 22.84                  |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 22.76                 | 22.80                    | 22.80                  | 23                  |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.05                 | 22.07                    | 22.05                  |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.14                 | 22.18                    | 22.13                  |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 22.11                 | 22.13                    | 22.10                  | 23                  |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.08                 | 22.11                    | 22.09                  |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 22.13                 | 22.14                    | 22.13                  |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 22.20                 | 22.22                    | 22.21                  | 23                  |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 22.16                 | 22.19                    | 22.14                  |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.09                 | 21.12                    | 21.11                  |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 21.20                 | 21.23                    | 21.20                  | 22                  |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 21.17                 | 21.19                    | 21.15                  |                     |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 21.15                 | 21.14                    | 21.12                  |                     |  |  |  |  |
| Channel         |            |         |           | 20415                 | 20525                    | 20635                  | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 825.5                 | 836.5                    | 847.5                  |                     |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 22.41                 | 22.40                    | 22.44                  | 24                  |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 22.55                 | 22.57                    | 22.57                  |                     |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 22.59                 | 22.47                    | 22.52                  |                     |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 22.52                 | 22.53                    | 22.55                  | 24                  |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 22.62                 | 22.62                    | 22.65                  |                     |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 22.58                 | 22.61                    | 22.59                  |                     |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 22.59                 | 22.58                    | 22.54                  | 24                  |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 22.71                 | 22.77                    | 22.77                  |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 22.91                 | 22.86                    | 22.87                  |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 22.85                 | 22.82                    | 22.83                  | 23                  |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 22.10                 | 22.12                    | 22.10                  |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 22.18                 | 22.20                    | 22.19                  |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 22.16                 | 22.17                    | 22.15                  | 23                  |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 22.14                 | 22.17                    | 22.07                  |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 22.16                 | 22.14                    | 22.15                  |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 8         | 22.25                 | 22.32                    | 22.27                  | 23                  |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 22.21                 | 22.23                    | 22.19                  |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 21.13                 | 21.14                    | 21.12                  |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 21.21                 | 21.20                    | 21.20                  | 22                  |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 21.20                 | 21.18                    | 21.18                  |                     |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 21.14                 | 21.15                    | 21.07                  |                     |  |  |  |  |
| Channel         |            |         |           | 20407                 | 20525                    | 20643                  | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 824.7                 | 836.5                    | 848.3                  |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 22.36                 | 22.41                    | 22.47                  | 24                  |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 22.49                 | 22.51                    | 22.52                  |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 22.41                 | 22.40                    | 22.45                  |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 22.45                 | 22.44                    | 22.46                  | 24                  |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 22.47                 | 22.49                    | 22.49                  |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 22.46                 | 22.46                    | 22.47                  |                     |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 22.53                 | 22.54                    | 22.53                  | 24                  |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 22.70                 | 22.69                    | 22.74                  |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 22.81                 | 22.85                    | 22.78                  |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 22.75                 | 22.79                    | 22.71                  | 24                  |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 22.53                 | 22.49                    | 22.54                  |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 22.56                 | 22.57                    | 22.57                  |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 22.53                 | 22.49                    | 22.52                  | 23                  |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.13                 | 22.14                    | 22.11                  |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 0         | 22.12                 | 22.17                    | 22.13                  |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 22.22                 | 22.22                    | 22.19                  | 23                  |  |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.14                 | 22.18                    | 22.14                  |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.15                 | 22.17                    | 22.13                  |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.21                 | 22.22                    | 22.18                  | 22                  |  |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.16                 | 22.17                    | 22.12                  |                     |  |  |  |  |
| 1.4             | 64QAM      | 6       | 0         | 21.07                 | 21.06                    | 21.03                  |                     |  |  |  |  |



| Band 7_Ant 2    |            |         |           |                             |                                |                              |                     |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 20850 | Power Middle Ch. / Freq. 21100 | Power High Ch. / Freq. 21350 | Tune-up limit (dBm) |
| Channel         |            |         |           | 2510                        | 2535                           | 2560                         |                     |
| Frequency (MHz) |            |         |           |                             |                                |                              |                     |
| 20              | QPSK       | 1       | 0         | 11.50                       | 11.55                          | 11.56                        | 13                  |
| 20              | QPSK       | 1       | 49        | 11.51                       | 11.61                          | 11.61                        |                     |
| 20              | QPSK       | 1       | 99        | 11.59                       | 11.65                          | 11.67                        |                     |
| 20              | QPSK       | 50      | 0         | 11.62                       | 11.70                          | 11.66                        | 13                  |
| 20              | QPSK       | 50      | 24        | 11.70                       | 11.75                          | 11.72                        |                     |
| 20              | QPSK       | 50      | 50        | 11.70                       | 11.77                          | 11.76                        |                     |
| 20              | QPSK       | 100     | 0         | 11.61                       | 11.60                          | 11.62                        | 13                  |
| 20              | 16QAM      | 1       | 0         | 11.86                       | 11.91                          | 11.96                        |                     |
| 20              | 16QAM      | 1       | 49        | 11.89                       | 12.02                          | 12.01                        |                     |
| 20              | 16QAM      | 1       | 99        | 11.94                       | 12.05                          | 12.02                        | 13                  |
| 20              | 16QAM      | 50      | 0         | 11.63                       | 11.69                          | 11.70                        |                     |
| 20              | 16QAM      | 50      | 24        | 11.72                       | 11.71                          | 11.73                        |                     |
| 20              | 16QAM      | 50      | 50        | 11.75                       | 11.84                          | 11.80                        | 13                  |
| 20              | 16QAM      | 100     | 0         | 11.62                       | 11.62                          | 11.63                        |                     |
| 20              | 64QAM      | 1       | 0         | 11.70                       | 11.89                          | 11.78                        |                     |
| 20              | 64QAM      | 1       | 49        | 11.72                       | 11.85                          | 11.88                        | 13                  |
| 20              | 64QAM      | 1       | 99        | 11.84                       | 11.91                          | 11.94                        |                     |
| 20              | 64QAM      | 50      | 0         | 11.64                       | 11.73                          | 11.70                        |                     |
| 20              | 64QAM      | 50      | 24        | 11.76                       | 11.75                          | 11.79                        | 13                  |
| 20              | 64QAM      | 50      | 50        | 11.75                       | 11.82                          | 11.86                        |                     |
| 20              | 64QAM      | 100     | 0         | 11.63                       | 11.64                          | 11.62                        |                     |
| Channel         |            |         |           | 20825                       | 21100                          | 21375                        | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5                      | 2535                           | 2562.5                       |                     |
| 15              | QPSK       | 1       | 0         | 11.52                       | 11.56                          | 11.59                        | 13                  |
| 15              | QPSK       | 1       | 37        | 11.52                       | 11.57                          | 11.60                        |                     |
| 15              | QPSK       | 1       | 74        | 11.62                       | 11.65                          | 11.67                        |                     |
| 15              | QPSK       | 36      | 0         | 11.62                       | 11.66                          | 11.69                        | 13                  |
| 15              | QPSK       | 36      | 20        | 11.73                       | 11.71                          | 11.72                        |                     |
| 15              | QPSK       | 36      | 39        | 11.75                       | 11.81                          | 11.79                        |                     |
| 15              | QPSK       | 75      | 0         | 11.64                       | 11.61                          | 11.62                        | 13                  |
| 15              | 16QAM      | 1       | 0         | 11.88                       | 11.95                          | 11.93                        |                     |
| 15              | 16QAM      | 1       | 37        | 11.95                       | 12.04                          | 11.97                        |                     |
| 15              | 16QAM      | 1       | 74        | 11.96                       | 12.03                          | 12.01                        | 13                  |
| 15              | 16QAM      | 36      | 0         | 11.65                       | 11.72                          | 11.72                        |                     |
| 15              | 16QAM      | 36      | 20        | 11.73                       | 11.74                          | 11.73                        |                     |
| 15              | 16QAM      | 36      | 39        | 11.72                       | 11.79                          | 11.76                        | 13                  |
| 15              | 16QAM      | 75      | 0         | 11.66                       | 11.66                          | 11.65                        |                     |
| 15              | 64QAM      | 1       | 0         | 11.72                       | 11.79                          | 11.76                        |                     |
| 15              | 64QAM      | 1       | 37        | 11.79                       | 11.90                          | 11.87                        | 13                  |
| 15              | 64QAM      | 1       | 74        | 11.86                       | 11.93                          | 11.90                        |                     |
| 15              | 64QAM      | 36      | 0         | 11.65                       | 11.73                          | 11.71                        |                     |
| 15              | 64QAM      | 36      | 20        | 11.77                       | 11.75                          | 11.76                        | 13                  |
| 15              | 64QAM      | 36      | 39        | 11.61                       | 11.84                          | 11.85                        |                     |
| 15              | 64QAM      | 75      | 0         | 11.67                       | 11.68                          | 11.67                        |                     |
| Channel         |            |         |           | 20800                       | 21100                          | 21400                        | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505                        | 2535                           | 2565                         |                     |
| 10              | QPSK       | 1       | 0         | 11.33                       | 11.45                          | 11.41                        | 13                  |
| 10              | QPSK       | 1       | 25        | 11.38                       | 11.50                          | 11.44                        |                     |
| 10              | QPSK       | 1       | 49        | 11.45                       | 11.56                          | 11.48                        |                     |
| 10              | QPSK       | 25      | 0         | 11.39                       | 11.45                          | 11.48                        | 13                  |
| 10              | QPSK       | 25      | 12        | 11.52                       | 11.51                          | 11.52                        |                     |
| 10              | QPSK       | 25      | 25        | 11.51                       | 11.57                          | 11.58                        |                     |
| 10              | QPSK       | 50      | 0         | 11.43                       | 11.40                          | 11.40                        | 13                  |
| 10              | 16QAM      | 1       | 0         | 11.74                       | 11.77                          | 11.80                        |                     |
| 10              | 16QAM      | 1       | 25        | 11.75                       | 11.84                          | 11.84                        |                     |
| 10              | 16QAM      | 1       | 49        | 11.82                       | 11.89                          | 11.88                        | 13                  |
| 10              | 16QAM      | 25      | 0         | 11.47                       | 11.55                          | 11.53                        |                     |
| 10              | 16QAM      | 25      | 12        | 11.55                       | 11.59                          | 11.54                        |                     |
| 10              | 16QAM      | 25      | 25        | 11.53                       | 11.60                          | 11.62                        | 13                  |
| 10              | 16QAM      | 50      | 0         | 11.41                       | 11.44                          | 11.39                        |                     |
| 10              | 64QAM      | 1       | 0         | 11.59                       | 11.62                          | 11.65                        |                     |
| 10              | 64QAM      | 1       | 25        | 11.71                       | 11.77                          | 11.79                        | 13                  |
| 10              | 64QAM      | 1       | 49        | 11.70                       | 11.81                          | 11.76                        |                     |
| 10              | 64QAM      | 25      | 0         | 11.45                       | 11.50                          | 11.52                        |                     |
| 10              | 64QAM      | 25      | 12        | 11.58                       | 11.57                          | 11.56                        | 13                  |
| 10              | 64QAM      | 25      | 25        | 11.55                       | 11.61                          | 11.65                        |                     |
| 10              | 64QAM      | 50      | 0         | 11.46                       | 11.42                          | 11.42                        |                     |
| Channel         |            |         |           | 20775                       | 21100                          | 21425                        | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5                      | 2535                           | 2567.5                       |                     |
| 5               | QPSK       | 1       | 0         | 11.33                       | 11.46                          | 11.44                        | 13                  |
| 5               | QPSK       | 1       | 12        | 11.41                       | 11.45                          | 11.50                        |                     |
| 5               | QPSK       | 1       | 24        | 11.42                       | 11.62                          | 11.48                        |                     |
| 5               | QPSK       | 12      | 0         | 11.41                       | 11.47                          | 11.50                        | 13                  |
| 5               | QPSK       | 12      | 7         | 11.55                       | 11.55                          | 11.58                        |                     |
| 5               | QPSK       | 12      | 13        | 11.51                       | 11.54                          | 11.55                        |                     |
| 5               | QPSK       | 25      | 0         | 11.46                       | 11.44                          | 11.54                        | 13                  |
| 5               | 16QAM      | 1       | 0         | 11.69                       | 11.67                          | 11.80                        |                     |
| 5               | 16QAM      | 1       | 12        | 11.73                       | 11.65                          | 11.77                        |                     |
| 5               | 16QAM      | 1       | 24        | 11.77                       | 11.83                          | 11.87                        | 13                  |
| 5               | 16QAM      | 12      | 0         | 11.43                       | 11.48                          | 11.54                        |                     |
| 5               | 16QAM      | 12      | 7         | 11.56                       | 11.55                          | 11.59                        |                     |
| 5               | 16QAM      | 12      | 13        | 11.52                       | 11.58                          | 11.55                        | 13                  |
| 5               | 16QAM      | 25      | 0         | 11.48                       | 11.51                          | 11.56                        |                     |
| 5               | 64QAM      | 1       | 0         | 11.63                       | 11.65                          | 11.79                        |                     |
| 5               | 64QAM      | 1       | 12        | 11.67                       | 11.67                          | 11.73                        | 13                  |
| 5               | 64QAM      | 1       | 24        | 11.75                       | 11.71                          | 11.80                        |                     |
| 5               | 64QAM      | 12      | 0         | 11.49                       | 11.53                          | 11.59                        |                     |
| 5               | 64QAM      | 12      | 7         | 11.65                       | 11.58                          | 11.63                        | 13                  |
| 5               | 64QAM      | 12      | 13        | 11.61                       | 11.61                          | 11.59                        |                     |
| 5               | 64QAM      | 25      | 0         | 11.52                       | 11.50                          | 11.58                        |                     |









| Band 4_Ant 2    |            |         |           |                           |                              |                            |               |
|-----------------|------------|---------|-----------|---------------------------|------------------------------|----------------------------|---------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq. 20050 | Power Middle Ch. Freq. 20175 | Power High Ch. Freq. 20300 | Tune-up (dBm) |
| Channel         |            |         |           | 1720                      | 1732.5                       | 1745                       |               |
| Frequency (MHz) |            |         |           |                           |                              |                            |               |
| 20              | QPSK       | 1       | 0         | 19.34                     | 19.34                        | 19.32                      | 20.5          |
| 20              | QPSK       | 1       | 49        | 19.49                     | 19.50                        | 19.52                      |               |
| 20              | QPSK       | 1       | 99        | 19.22                     | 19.22                        | 19.21                      |               |
| 20              | QPSK       | 50      | 0         | 19.57                     | 19.55                        | 19.56                      | 20.5          |
| 20              | QPSK       | 50      | 24        | 19.69                     | 19.59                        | 19.60                      |               |
| 20              | QPSK       | 50      | 50        | 19.60                     | 19.58                        | 19.57                      |               |
| 20              | QPSK       | 100     | 0         | 19.61                     | 19.49                        | 19.52                      | 20.5          |
| 20              | 16QAM      | 1       | 0         | 19.66                     | 19.66                        | 19.69                      |               |
| 20              | 16QAM      | 1       | 49        | 19.67                     | 19.91                        | 19.92                      |               |
| 20              | 16QAM      | 1       | 99        | 19.61                     | 19.56                        | 19.58                      | 20.5          |
| 20              | 16QAM      | 50      | 0         | 19.57                     | 19.55                        | 19.55                      |               |
| 20              | 16QAM      | 50      | 24        | 19.71                     | 19.62                        | 19.59                      |               |
| 20              | 16QAM      | 50      | 50        | 19.60                     | 19.58                        | 19.59                      | 20.5          |
| 20              | 16QAM      | 100     | 0         | 19.61                     | 19.55                        | 19.52                      |               |
| 20              | 64QAM      | 1       | 0         | 19.54                     | 19.54                        | 19.49                      |               |
| 20              | 64QAM      | 1       | 49        | 19.69                     | 19.73                        | 19.76                      | 20.5          |
| 20              | 64QAM      | 1       | 99        | 19.49                     | 19.43                        | 19.50                      |               |
| 20              | 64QAM      | 50      | 0         | 19.59                     | 19.59                        | 19.57                      |               |
| 20              | 64QAM      | 20      | 24        | 19.72                     | 19.63                        | 19.69                      | 20.5          |
| 20              | 64QAM      | 50      | 50        | 19.61                     | 19.60                        | 19.61                      |               |
| 20              | 64QAM      | 100     | 0         | 19.64                     | 19.57                        | 19.52                      |               |
| Channel         |            |         |           | 20025                     | 20175                        | 20325                      | Tune-up (dBm) |
| Frequency (MHz) |            |         |           | 1717.5                    | 1732.5                       | 1747.5                     |               |
| 15              | QPSK       | 1       | 0         | 19.44                     | 19.43                        | 19.41                      | 20.5          |
| 15              | QPSK       | 1       | 37        | 19.53                     | 19.51                        | 19.51                      |               |
| 15              | QPSK       | 1       | 74        | 19.41                     | 19.38                        | 19.40                      |               |
| 15              | QPSK       | 36      | 0         | 19.56                     | 19.57                        | 19.57                      | 20.5          |
| 15              | QPSK       | 36      | 20        | 19.67                     | 19.61                        | 19.68                      |               |
| 15              | QPSK       | 36      | 39        | 19.62                     | 19.62                        | 19.61                      |               |
| 15              | QPSK       | 75      | 0         | 19.64                     | 19.56                        | 19.61                      | 20.5          |
| 15              | 16QAM      | 1       | 0         | 19.74                     | 19.73                        | 19.73                      |               |
| 15              | 16QAM      | 1       | 37        | 19.69                     | 19.66                        | 19.62                      |               |
| 15              | 16QAM      | 1       | 74        | 19.73                     | 19.74                        | 19.71                      | 20.5          |
| 15              | 16QAM      | 36      | 0         | 19.59                     | 19.58                        | 19.57                      |               |
| 15              | 16QAM      | 36      | 20        | 19.84                     | 19.60                        | 19.67                      |               |
| 15              | 16QAM      | 36      | 39        | 19.62                     | 19.62                        | 19.62                      | 20.5          |
| 15              | 16QAM      | 75      | 0         | 19.63                     | 19.55                        | 19.61                      |               |
| 15              | 64QAM      | 1       | 0         | 19.60                     | 19.63                        | 19.62                      |               |
| 15              | 64QAM      | 1       | 37        | 19.78                     | 19.61                        | 19.74                      | 20.5          |
| 15              | 64QAM      | 1       | 74        | 19.70                     | 19.61                        | 19.62                      |               |
| 15              | 64QAM      | 36      | 0         | 19.59                     | 19.61                        | 19.62                      |               |
| 15              | 64QAM      | 36      | 20        | 19.72                     | 19.64                        | 19.72                      | 20.5          |
| 15              | 64QAM      | 36      | 39        | 19.67                     | 19.64                        | 19.66                      |               |
| 15              | 64QAM      | 75      | 0         | 19.66                     | 19.57                        | 19.63                      |               |
| Channel         |            |         |           | 20000                     | 20175                        | 20350                      | Tune-up (dBm) |
| Frequency (MHz) |            |         |           | 1715                      | 1732.5                       | 1750                       |               |
| 10              | QPSK       | 1       | 0         | 19.11                     | 19.13                        | 19.13                      | 20.5          |
| 10              | QPSK       | 1       | 25        | 19.38                     | 19.38                        | 19.38                      |               |
| 10              | QPSK       | 1       | 49        | 19.06                     | 19.08                        | 19.05                      |               |
| 10              | QPSK       | 25      | 0         | 19.37                     | 19.36                        | 19.36                      | 20.5          |
| 10              | QPSK       | 25      | 12        | 19.51                     | 19.41                        | 19.43                      |               |
| 10              | QPSK       | 25      | 25        | 19.37                     | 19.35                        | 19.37                      |               |
| 10              | QPSK       | 50      | 0         | 19.42                     | 19.35                        | 19.33                      | 20.5          |
| 10              | 16QAM      | 1       | 0         | 19.46                     | 19.47                        | 19.46                      |               |
| 10              | 16QAM      | 1       | 25        | 19.75                     | 19.76                        | 19.76                      |               |
| 10              | 16QAM      | 1       | 49        | 19.44                     | 19.42                        | 19.43                      | 20.5          |
| 10              | 16QAM      | 25      | 0         | 19.40                     | 19.38                        | 19.36                      |               |
| 10              | 16QAM      | 25      | 12        | 19.53                     | 19.44                        | 19.44                      |               |
| 10              | 16QAM      | 25      | 25        | 19.39                     | 19.37                        | 19.37                      | 20.5          |
| 10              | 16QAM      | 50      | 0         | 19.44                     | 19.35                        | 19.36                      |               |
| 10              | 64QAM      | 1       | 0         | 19.36                     | 19.34                        | 19.35                      |               |
| 10              | 64QAM      | 1       | 25        | 19.73                     | 19.69                        | 19.68                      | 20.5          |
| 10              | 64QAM      | 1       | 49        | 19.36                     | 19.35                        | 19.35                      |               |
| 10              | 64QAM      | 25      | 0         | 19.41                     | 19.40                        | 19.41                      |               |
| 10              | 64QAM      | 25      | 12        | 19.56                     | 19.51                        | 19.51                      | 20.5          |
| 10              | 64QAM      | 25      | 25        | 19.41                     | 19.41                        | 19.43                      |               |
| 10              | 64QAM      | 50      | 0         | 19.46                     | 19.39                        | 19.37                      |               |
| Channel         |            |         |           | 19975                     | 20175                        | 20375                      | Tune-up (dBm) |
| Frequency (MHz) |            |         |           | 1712.5                    | 1732.5                       | 1752.5                     |               |
| 5               | QPSK       | 1       | 0         | 19.33                     | 19.36                        | 19.31                      | 20.5          |
| 5               | QPSK       | 1       | 12        | 19.42                     | 19.45                        | 19.43                      |               |
| 5               | QPSK       | 1       | 24        | 19.31                     | 19.27                        | 19.25                      |               |
| 5               | QPSK       | 12      | 0         | 19.51                     | 19.46                        | 19.46                      | 20.5          |
| 5               | QPSK       | 12      | 7         | 19.53                     | 19.55                        | 19.51                      |               |
| 5               | QPSK       | 12      | 13        | 19.46                     | 19.46                        | 19.46                      |               |
| 5               | QPSK       | 25      | 0         | 19.48                     | 19.42                        | 19.46                      | 20.5          |
| 5               | 16QAM      | 1       | 0         | 19.66                     | 19.57                        | 19.63                      |               |
| 5               | 16QAM      | 1       | 12        | 19.72                     | 19.70                        | 19.66                      |               |
| 5               | 16QAM      | 1       | 24        | 19.62                     | 19.63                        | 19.58                      | 20.5          |
| 5               | 16QAM      | 12      | 0         | 19.54                     | 19.49                        | 19.46                      |               |
| 5               | 16QAM      | 12      | 7         | 19.55                     | 19.55                        | 19.52                      |               |
| 5               | 16QAM      | 12      | 13        | 19.48                     | 19.48                        | 19.47                      | 20.5          |
| 5               | 16QAM      | 25      | 0         | 19.52                     | 19.45                        | 19.49                      |               |
| 5               | 64QAM      | 1       | 0         | 19.66                     | 19.62                        | 19.55                      |               |
| 5               | 64QAM      | 1       | 12        | 19.64                     | 19.65                        | 19.60                      | 20.5          |
| 5               | 64QAM      | 1       | 24        | 19.47                     | 19.55                        | 19.54                      |               |
| 5               | 64QAM      | 12      | 0         | 19.60                     | 19.54                        | 19.50                      |               |
| 5               | 64QAM      | 12      | 7         | 19.61                     | 19.62                        | 19.63                      | 20.5          |
| 5               | 64QAM      | 12      | 13        | 19.56                     | 19.56                        | 19.50                      |               |
| 5               | 64QAM      | 25      | 0         | 19.54                     | 19.46                        | 19.52                      |               |
| Channel         |            |         |           | 19965                     | 20175                        | 20385                      | Tune-up (dBm) |
| Frequency (MHz) |            |         |           | 1711.5                    | 1732.5                       | 1753.5                     |               |
| 3               | QPSK       | 1       | 0         | 19.42                     | 19.40                        | 19.40                      | 20.5          |
| 3               | QPSK       | 1       | 8         | 19.48                     | 19.46                        | 19.46                      |               |
| 3               | QPSK       | 1       | 14        | 19.40                     | 19.37                        | 19.35                      |               |
| 3               | QPSK       | 8       | 0         | 19.53                     | 19.47                        | 19.44                      | 20.5          |
| 3               | QPSK       | 8       | 4         | 19.56                     | 19.55                        | 19.53                      |               |
| 3               | QPSK       | 8       | 7         | 19.50                     | 19.46                        | 19.46                      |               |
| 3               | QPSK       | 15      | 0         | 19.50                     | 19.45                        | 19.48                      | 20.5          |
| 3               | 16QAM      | 1       | 0         | 19.72                     | 19.72                        | 19.67                      |               |
| 3               | 16QAM      | 1       | 8         | 19.79                     | 19.63                        | 19.75                      |               |
| 3               | 16QAM      | 1       | 14        | 19.71                     | 19.69                        | 19.69                      | 20.5          |
| 3               | 16QAM      | 8       | 0         | 19.58                     | 19.53                        | 19.50                      |               |
| 3               | 16QAM      | 8       | 4         | 19.59                     | 19.58                        | 19.58                      |               |
| 3               | 16QAM      | 8       | 7         | 19.52                     | 19.54                        | 19.51                      | 20.5          |
| 3               | 16QAM      | 15      | 0         | 19.54                     | 19.49                        | 19.53                      |               |
| 3               | 64QAM      | 1       | 0         | 19.66                     | 19.62                        | 19.55                      |               |
| 3               | 64QAM      | 1       | 8         | 19.73                     | 19.72                        | 19.70                      | 20.5          |
| 3               | 64QAM      | 1       | 14        | 19.59                     | 19.63                        | 19.58                      |               |
| 3               | 64QAM      | 8       | 0         | 19.62                     | 19.56                        | 19.54                      |               |
| 3               | 64QAM      | 8       | 4         | 19.61                     | 19.62                        | 19.60                      | 20.5          |
| 3               | 64QAM      | 8       | 7         | 19.56                     | 19.57                        | 19.56                      |               |
| 3               | 64QAM      | 15      | 0         | 19.56                     | 19.49                        | 19.55                      |               |
| Channel         |            |         |           | 19957                     | 20175                        | 20393                      | Tune-up (dBm) |
| Frequency (MHz) |            |         |           | 1710.7                    | 1732.5                       | 1754.3                     |               |
| 1.4             | QPSK       | 1       | 0         | 19.28                     | 19.35                        | 19.28                      | 20.5          |
| 1.4             | QPSK       | 1       | 3         | 19.38                     | 19.38                        | 19.36                      |               |
| 1.4             | QPSK       | 1       | 5         | 19.30                     | 19.30                        | 19.31                      |               |
| 1.4             | QPSK       | 3       | 0         | 19.37                     | 19.37                        | 19.27                      | 20.5          |
| 1.4             | QPSK       | 3       | 1         | 19.39                     | 19.38                        | 19.31                      |               |
| 1.4             | QPSK       | 3       | 3         | 19.34                     | 19.35                        | 19.31                      |               |
| 1.4             | QPSK       | 6       | 0         | 19.41                     | 19.40                        | 19.35                      | 20.5          |
| 1.4             | 16QAM      | 1       | 0         | 19.62                     | 19.67                        | 19.57                      |               |
| 1.4             | 16QAM      | 1       | 3         | 19.73                     | 19.72                        | 19.73                      |               |
| 1.4             | 16QAM      | 1       | 5         | 19.64                     | 19.64                        | 19.63                      | 20.5          |
| 1.4             | 16QAM      | 3       | 0         | 19.45                     | 19.45                        | 19.35                      |               |
| 1.4             | 16QAM      | 3       | 1         | 19.48                     | 19.48                        | 19.42                      |               |
| 1.4             | 16QAM      | 3       | 3         | 19.41                     | 19.42                        | 19.40                      | 20.5          |
| 1.4             | 16QAM      | 6       | 0         | 19.52                     | 19.52                        | 19.45                      |               |
| 1.4             | 64QAM      | 1       | 0         | 19.57                     | 19.56                        | 19.51                      |               |
| 1.4             | 64QAM      | 1       | 3         | 19.63                     | 19.63                        | 19.63                      | 20.5          |
| 1.4             | 64QAM      | 1       | 5         | 19.52                     | 19.54                        | 19.54                      |               |
| 1.4             | 64QAM      | 3       | 0         | 19.56                     | 19.57                        | 19.52                      |               |
| 1.4             | 64QAM      | 3       | 1         | 19.62                     | 19.65                        | 19.55                      | 20.5          |
| 1.4             | 64QAM      | 3       | 3         | 19.56                     | 19.55                        | 19.57                      |               |
| 1.4             | 64QAM      | 6       | 0         | 19.43                     | 19.46                        | 19.40                      |               |





| Band 7_Ant 2    |            |         |           |                     |                        |                      |                     |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq. | Power Middle Ch. Freq. | Power High Ch. Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 20850               | 21100                  | 21350                |                     |
| Frequency (MHz) |            |         |           | 2510                | 2535                   | 2560                 |                     |
| 20              | QPSK       | 1       | 0         | 17.11               | 17.08                  | 17.18                | 18                  |
| 20              | QPSK       | 1       | 49        | 17.13               | 17.17                  | 17.21                |                     |
| 20              | QPSK       | 1       | 99        | 17.21               | 17.22                  | 17.25                | 18                  |
| 20              | QPSK       | 50      | 0         | 17.21               | 17.28                  | 17.29                |                     |
| 20              | QPSK       | 50      | 24        | 17.31               | 17.31                  | 17.34                | 18                  |
| 20              | QPSK       | 50      | 50        | 17.31               | 17.35                  | 17.39                |                     |
| 20              | QPSK       | 100     | 0         | 17.25               | 17.16                  | 17.22                | 18                  |
| 20              | 16QAM      | 1       | 0         | 17.47               | 17.43                  | 17.52                |                     |
| 20              | 16QAM      | 1       | 49        | 17.48               | 17.47                  | 17.56                | 18                  |
| 20              | 16QAM      | 1       | 99        | 17.55               | 17.55                  | 17.58                |                     |
| 20              | 16QAM      | 50      | 0         | 17.24               | 17.25                  | 17.29                | 18                  |
| 20              | 16QAM      | 50      | 24        | 17.33               | 17.29                  | 17.32                |                     |
| 20              | 16QAM      | 50      | 50        | 17.35               | 17.37                  | 17.38                | 18                  |
| 20              | 16QAM      | 100     | 0         | 17.23               | 17.16                  | 17.21                |                     |
| 20              | 64QAM      | 1       | 0         | 17.30               | 17.25                  | 17.39                | 18                  |
| 20              | 64QAM      | 1       | 49        | 17.38               | 17.37                  | 17.50                |                     |
| 20              | 64QAM      | 1       | 99        | 17.43               | 17.42                  | 17.54                | 18                  |
| 20              | 64QAM      | 50      | 0         | 17.22               | 17.25                  | 17.31                |                     |
| 20              | 64QAM      | 50      | 24        | 17.31               | 17.28                  | 17.38                | 18                  |
| 20              | 64QAM      | 50      | 50        | 17.35               | 17.36                  | 17.45                |                     |
| 20              | 64QAM      | 100     | 0         | 17.22               | 17.18                  | 17.29                | Tune-up limit (dBm) |
| Channel         |            |         |           | 20825               | 21100                  | 21375                |                     |
| Frequency (MHz) |            |         |           | 2507.5              | 2535                   | 2562.5               |                     |
| 15              | QPSK       | 1       | 0         | 17.16               | 17.16                  | 17.23                | 18                  |
| 15              | QPSK       | 1       | 37        | 17.16               | 17.17                  | 17.24                |                     |
| 15              | QPSK       | 1       | 74        | 17.21               | 17.25                  | 17.29                | 18                  |
| 15              | QPSK       | 36      | 0         | 17.24               | 17.23                  | 17.29                |                     |
| 15              | QPSK       | 36      | 20        | 17.31               | 17.29                  | 17.39                | 18                  |
| 15              | QPSK       | 36      | 39        | 17.34               | 17.37                  | 17.39                |                     |
| 15              | QPSK       | 75      | 0         | 17.25               | 17.21                  | 17.24                | 18                  |
| 15              | 16QAM      | 1       | 0         | 17.47               | 17.47                  | 17.51                |                     |
| 15              | 16QAM      | 1       | 37        | 17.47               | 17.48                  | 17.50                | 18                  |
| 15              | 16QAM      | 1       | 74        | 17.51               | 17.54                  | 17.57                |                     |
| 15              | 16QAM      | 36      | 0         | 17.23               | 17.26                  | 17.33                | 18                  |
| 15              | 16QAM      | 36      | 20        | 17.31               | 17.29                  | 17.39                |                     |
| 15              | 16QAM      | 36      | 39        | 17.37               | 17.33                  | 17.37                | 18                  |
| 15              | 16QAM      | 75      | 0         | 17.27               | 17.22                  | 17.24                |                     |
| 15              | 64QAM      | 1       | 0         | 17.32               | 17.28                  | 17.44                | 18                  |
| 15              | 64QAM      | 1       | 37        | 17.40               | 17.38                  | 17.49                |                     |
| 15              | 64QAM      | 1       | 74        | 17.42               | 17.44                  | 17.56                | 18                  |
| 15              | 64QAM      | 36      | 0         | 17.28               | 17.25                  | 17.37                |                     |
| 15              | 64QAM      | 36      | 20        | 17.34               | 17.30                  | 17.46                | 18                  |
| 15              | 64QAM      | 36      | 39        | 17.36               | 17.35                  | 17.46                |                     |
| 15              | 64QAM      | 75      | 0         | 17.27               | 17.21                  | 17.29                | Tune-up limit (dBm) |
| Channel         |            |         |           | 20800               | 21100                  | 21400                |                     |
| Frequency (MHz) |            |         |           | 2505                | 2535                   | 2565                 |                     |
| 10              | QPSK       | 1       | 0         | 16.90               | 17.00                  | 17.00                | 18                  |
| 10              | QPSK       | 1       | 25        | 16.90               | 17.02                  | 17.02                |                     |
| 10              | QPSK       | 1       | 49        | 16.96               | 17.07                  | 17.06                | 18                  |
| 10              | QPSK       | 25      | 0         | 17.01               | 17.03                  | 17.08                |                     |
| 10              | QPSK       | 25      | 12        | 17.06               | 17.06                  | 17.16                | 18                  |
| 10              | QPSK       | 25      | 25        | 17.12               | 17.13                  | 17.15                |                     |
| 10              | QPSK       | 50      | 0         | 17.02               | 16.98                  | 17.08                | 18                  |
| 10              | 16QAM      | 1       | 0         | 17.31               | 17.34                  | 17.37                |                     |
| 10              | 16QAM      | 1       | 25        | 17.33               | 17.38                  | 17.41                | 18                  |
| 10              | 16QAM      | 1       | 49        | 17.35               | 17.43                  | 17.43                |                     |
| 10              | 16QAM      | 25      | 0         | 17.01               | 17.06                  | 17.09                | 18                  |
| 10              | 16QAM      | 25      | 12        | 17.10               | 17.07                  | 17.16                |                     |
| 10              | 16QAM      | 25      | 25        | 17.13               | 17.14                  | 17.15                | 18                  |
| 10              | 16QAM      | 50      | 0         | 17.01               | 16.98                  | 17.07                |                     |
| 10              | 64QAM      | 1       | 0         | 17.12               | 17.25                  | 17.22                | 18                  |
| 10              | 64QAM      | 1       | 25        | 17.26               | 17.32                  | 17.32                |                     |
| 10              | 64QAM      | 1       | 49        | 17.26               | 17.33                  | 17.36                | 18                  |
| 10              | 64QAM      | 25      | 0         | 17.01               | 17.06                  | 17.08                |                     |
| 10              | 64QAM      | 25      | 12        | 17.11               | 17.10                  | 17.22                | 18                  |
| 10              | 64QAM      | 25      | 25        | 17.13               | 17.16                  | 17.22                |                     |
| 10              | 64QAM      | 50      | 0         | 17.03               | 17.01                  | 17.09                | Tune-up limit (dBm) |
| Channel         |            |         |           | 20775               | 21100                  | 21425                |                     |
| Frequency (MHz) |            |         |           | 2502.5              | 2535                   | 2567.5               |                     |
| 5               | QPSK       | 1       | 0         | 16.92               | 16.97                  | 17.04                | 18                  |
| 5               | QPSK       | 1       | 12        | 17.02               | 17.06                  | 17.11                |                     |
| 5               | QPSK       | 1       | 24        | 17.00               | 17.06                  | 17.06                | 18                  |
| 5               | QPSK       | 12      | 0         | 17.04               | 17.02                  | 17.13                |                     |
| 5               | QPSK       | 12      | 7         | 17.12               | 17.07                  | 17.14                | 18                  |
| 5               | QPSK       | 12      | 13        | 17.07               | 17.13                  | 17.14                |                     |
| 5               | QPSK       | 25      | 0         | 17.06               | 17.06                  | 17.13                | 18                  |
| 5               | 16QAM      | 1       | 0         | 17.27               | 17.33                  | 17.42                |                     |
| 5               | 16QAM      | 1       | 12        | 17.37               | 17.45                  | 17.47                | 18                  |
| 5               | 16QAM      | 1       | 24        | 17.35               | 17.42                  | 17.42                |                     |
| 5               | 16QAM      | 12      | 0         | 17.09               | 17.08                  | 17.13                | 18                  |
| 5               | 16QAM      | 12      | 7         | 17.12               | 17.11                  | 17.18                |                     |
| 5               | 16QAM      | 12      | 13        | 17.10               | 17.14                  | 17.13                | 18                  |
| 5               | 16QAM      | 25      | 0         | 17.09               | 17.06                  | 17.12                |                     |
| 5               | 64QAM      | 1       | 0         | 17.19               | 17.27                  | 17.39                | 18                  |
| 5               | 64QAM      | 1       | 12        | 17.26               | 17.36                  | 17.34                |                     |
| 5               | 64QAM      | 1       | 24        | 17.27               | 17.37                  | 17.38                | 18                  |
| 5               | 64QAM      | 12      | 0         | 17.09               | 17.14                  | 17.17                |                     |
| 5               | 64QAM      | 12      | 7         | 17.15               | 17.16                  | 17.24                | 18                  |
| 5               | 64QAM      | 12      | 13        | 17.12               | 17.20                  | 17.15                |                     |
| 5               | 64QAM      | 25      | 0         | 17.04               | 17.06                  | 17.15                |                     |









| Band 5_Ant 0    |            |         |           |                             |                                |                              |                     |  |  |  |  |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------|--|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 20450 | Power Middle Ch. / Freq. 20525 | Power High Ch. / Freq. 20600 | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 829                         | 836.5                          | 844                          |                     |  |  |  |  |
| Frequency (MHz) |            |         |           |                             |                                |                              |                     |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 21.99                       | 21.99                          | 22.03                        | 23                  |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 21.94                       | 21.96                          | 21.96                        |                     |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 21.97                       | 21.93                          | 21.91                        |                     |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 22.03                       | 22.02                          | 22.03                        |                     |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 22.11                       | 22.09                          | 22.05                        | 23                  |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 22.07                       | 22.06                          | 22.05                        |                     |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 22.02                       | 22.01                          | 21.95                        |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 22.36                       | 22.37                          | 22.36                        | 23                  |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 22.35                       | 22.36                          | 22.33                        |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 22.33                       | 22.30                          | 22.31                        |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.00                       | 22.04                          | 22.04                        |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.12                       | 22.14                          | 22.05                        | 23                  |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 22.05                       | 22.09                          | 22.07                        |                     |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.02                       | 22.04                          | 21.96                        |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 22.18                       | 22.20                          | 22.23                        | 23                  |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 22.23                       | 22.25                          | 22.26                        |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 22.24                       | 22.21                          | 22.18                        |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.09                       | 21.07                          | 21.10                        |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 21.18                       | 21.16                          | 21.12                        | 22                  |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 21.10                       | 21.11                          | 21.11                        |                     |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 21.07                       | 21.06                          | 21.01                        |                     |  |  |  |  |
| Channel         |            |         |           | 20457                       | 20525                          | 20603                        | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 826.5                       | 836.5                          | 846.5                        |                     |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 21.87                       | 21.90                          | 21.85                        | 23                  |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 22.00                       | 22.02                          | 22.00                        |                     |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 21.96                       | 21.96                          | 21.91                        |                     |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 22.00                       | 22.02                          | 22.00                        |                     |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 22.10                       | 22.10                          | 22.10                        | 23                  |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 22.07                       | 22.08                          | 22.04                        |                     |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 22.07                       | 22.06                          | 22.06                        |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 22.22                       | 22.23                          | 22.21                        | 23                  |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 22.32                       | 22.31                          | 22.25                        |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 22.29                       | 22.28                          | 22.25                        |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.03                       | 22.02                          | 22.05                        |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.12                       | 22.14                          | 22.13                        | 23                  |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 22.10                       | 22.10                          | 22.07                        |                     |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.12                       | 22.11                          | 22.07                        |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 22.14                       | 22.12                          | 22.12                        | 23                  |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 22.19                       | 22.22                          | 22.17                        |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 22.14                       | 22.20                          | 22.12                        |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.09                       | 21.10                          | 21.09                        |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 21.20                       | 21.19                          | 21.19                        | 22                  |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 21.17                       | 21.18                          | 21.13                        |                     |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 21.11                       | 21.10                          | 21.09                        |                     |  |  |  |  |
| Channel         |            |         |           | 20415                       | 20525                          | 20635                        | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 825.5                       | 836.5                          | 847.5                        |                     |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 21.88                       | 21.92                          | 21.89                        | 23                  |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 22.04                       | 22.05                          | 22.01                        |                     |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 21.99                       | 21.97                          | 21.92                        |                     |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 22.00                       | 22.00                          | 22.02                        |                     |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 22.10                       | 22.09                          | 22.11                        | 23                  |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 22.07                       | 22.09                          | 22.06                        |                     |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 22.07                       | 22.07                          | 22.00                        |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 22.20                       | 22.30                          | 22.28                        | 23                  |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 22.30                       | 22.34                          | 22.32                        |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 22.33                       | 22.36                          | 22.27                        |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 22.08                       | 22.08                          | 22.06                        |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 22.18                       | 22.18                          | 22.16                        | 23                  |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 22.15                       | 22.14                          | 22.10                        |                     |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 22.12                       | 22.14                          | 22.03                        |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 22.09                       | 22.12                          | 22.12                        |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 8         | 22.24                       | 22.27                          | 22.25                        | 23                  |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 22.18                       | 22.23                          | 22.16                        |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 21.10                       | 21.10                          | 21.09                        |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 21.17                       | 21.17                          | 21.16                        |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 21.15                       | 21.17                          | 21.15                        | 22                  |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 21.12                       | 21.11                          | 21.04                        |                     |  |  |  |  |
| Channel         |            |         |           | 20407                       | 20525                          | 20643                        | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 824.7                       | 836.5                          | 848.3                        |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 21.87                       | 21.94                          | 21.89                        | 23                  |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 21.98                       | 21.98                          | 21.97                        |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 21.99                       | 21.98                          | 21.85                        |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 21.90                       | 21.94                          | 21.89                        |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 21.93                       | 21.96                          | 21.94                        | 23                  |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 21.94                       | 21.94                          | 21.89                        |                     |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 22.01                       | 22.01                          | 21.98                        |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 22.17                       | 22.27                          | 22.19                        |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 22.32                       | 22.31                          | 22.30                        | 23                  |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 22.24                       | 22.25                          | 22.18                        |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 22.03                       | 22.01                          | 21.98                        |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 22.07                       | 22.08                          | 22.00                        |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 22.04                       | 22.01                          | 21.94                        | 23                  |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.12                       | 22.10                          | 22.06                        |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 0         | 22.07                       | 22.16                          | 22.14                        |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 22.18                       | 22.22                          | 22.17                        |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.13                       | 22.13                          | 22.08                        | 23                  |  |  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.12                       | 22.12                          | 22.11                        |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.18                       | 22.17                          | 22.16                        |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.12                       | 22.13                          | 22.10                        |                     |  |  |  |  |
| 1.4             | 64QAM      | 6       | 0         | 21.03                       | 21.02                          | 21.00                        | 22                  |  |  |  |  |



| Band_Ant 2      |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 20850                 | 21100                    | 21350                  |                     |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   |                     |
| 20              | QPSK       | 1       | 0         | 15.60                 | 15.60                    | 15.66                  | 16.5                |
| 20              | QPSK       | 1       | 49        | 15.61                 | 15.65                    | 15.73                  |                     |
| 20              | QPSK       | 1       | 99        | 15.70                 | 15.71                    | 15.74                  |                     |
| 20              | QPSK       | 50      | 0         | 15.69                 | 15.78                    | 15.80                  | 16.5                |
| 20              | QPSK       | 50      | 24        | 15.78                 | 15.78                    | 15.84                  |                     |
| 20              | QPSK       | 50      | 50        | 15.81                 | 15.83                    | 15.88                  |                     |
| 20              | QPSK       | 100     | 0         | 15.74                 | 15.68                    | 15.73                  | 16.5                |
| 20              | 16QAM      | 1       | 0         | 15.97                 | 15.94                    | 16.07                  |                     |
| 20              | 16QAM      | 1       | 49        | 15.97                 | 16.05                    | 16.10                  |                     |
| 20              | 16QAM      | 1       | 99        | 16.05                 | 16.08                    | 16.09                  | 16.5                |
| 20              | 16QAM      | 50      | 0         | 15.74                 | 15.76                    | 15.83                  |                     |
| 20              | 16QAM      | 50      | 24        | 15.83                 | 15.82                    | 15.86                  |                     |
| 20              | 16QAM      | 50      | 50        | 15.87                 | 15.87                    | 15.90                  | 16.5                |
| 20              | 16QAM      | 100     | 0         | 15.71                 | 15.66                    | 15.74                  |                     |
| 20              | 64QAM      | 1       | 0         | 15.80                 | 15.79                    | 15.88                  |                     |
| 20              | 64QAM      | 1       | 49        | 15.89                 | 15.95                    | 15.97                  | 16.5                |
| 20              | 64QAM      | 1       | 99        | 15.95                 | 15.98                    | 16.02                  |                     |
| 20              | 64QAM      | 50      | 0         | 15.79                 | 15.82                    | 15.86                  |                     |
| 20              | 64QAM      | 50      | 24        | 15.87                 | 15.87                    | 15.89                  | 16.5                |
| 20              | 64QAM      | 50      | 50        | 15.86                 | 15.93                    | 15.94                  |                     |
| 20              | 64QAM      | 100     | 0         | 15.74                 | 15.71                    | 15.80                  |                     |
| Channel         |            |         |           | 20825                 | 21100                    | 21375                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |
| 15              | QPSK       | 1       | 0         | 15.64                 | 15.64                    | 15.74                  | 16.5                |
| 15              | QPSK       | 1       | 37        | 15.64                 | 15.63                    | 15.74                  |                     |
| 15              | QPSK       | 1       | 74        | 15.71                 | 15.75                    | 15.79                  |                     |
| 15              | QPSK       | 36      | 0         | 15.74                 | 15.73                    | 15.80                  | 16.5                |
| 15              | QPSK       | 36      | 20        | 15.80                 | 15.75                    | 15.88                  |                     |
| 15              | QPSK       | 36      | 39        | 15.82                 | 15.85                    | 15.90                  |                     |
| 15              | QPSK       | 75      | 0         | 15.73                 | 15.69                    | 15.75                  | 16.5                |
| 15              | 16QAM      | 1       | 0         | 15.97                 | 15.96                    | 16.01                  |                     |
| 15              | 16QAM      | 1       | 37        | 15.96                 | 16.04                    | 16.06                  |                     |
| 15              | 16QAM      | 1       | 74        | 16.04                 | 16.08                    | 16.09                  | 16.5                |
| 15              | 16QAM      | 36      | 0         | 15.76                 | 15.75                    | 15.81                  |                     |
| 15              | 16QAM      | 36      | 20        | 15.84                 | 15.80                    | 15.90                  |                     |
| 15              | 16QAM      | 36      | 39        | 15.84                 | 15.86                    | 15.90                  | 16.5                |
| 15              | 16QAM      | 75      | 0         | 15.76                 | 15.74                    | 15.76                  |                     |
| 15              | 64QAM      | 1       | 0         | 15.81                 | 15.80                    | 15.92                  |                     |
| 15              | 64QAM      | 1       | 37        | 15.88                 | 15.94                    | 15.99                  | 16.5                |
| 15              | 64QAM      | 1       | 74        | 15.94                 | 15.98                    | 16.03                  |                     |
| 15              | 64QAM      | 36      | 0         | 15.75                 | 15.79                    | 15.85                  |                     |
| 15              | 64QAM      | 36      | 20        | 15.89                 | 15.84                    | 15.94                  | 16.5                |
| 15              | 64QAM      | 36      | 39        | 15.90                 | 15.92                    | 15.95                  |                     |
| 15              | 64QAM      | 75      | 0         | 15.78                 | 15.74                    | 15.80                  |                     |
| Channel         |            |         |           | 20800                 | 21100                    | 21400                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505                  | 2535                     | 2565                   |                     |
| 10              | QPSK       | 1       | 0         | 15.41                 | 15.46                    | 15.47                  | 16.5                |
| 10              | QPSK       | 1       | 25        | 15.41                 | 15.53                    | 15.52                  |                     |
| 10              | QPSK       | 1       | 49        | 15.46                 | 15.54                    | 15.56                  |                     |
| 10              | QPSK       | 25      | 0         | 15.45                 | 15.55                    | 15.58                  | 16.5                |
| 10              | QPSK       | 25      | 12        | 15.57                 | 15.56                    | 15.68                  |                     |
| 10              | QPSK       | 25      | 25        | 15.56                 | 15.65                    | 15.65                  |                     |
| 10              | QPSK       | 50      | 0         | 15.49                 | 15.50                    | 15.59                  | 16.5                |
| 10              | 16QAM      | 1       | 0         | 15.82                 | 15.85                    | 15.90                  |                     |
| 10              | 16QAM      | 1       | 25        | 15.83                 | 15.94                    | 15.92                  |                     |
| 10              | 16QAM      | 1       | 49        | 15.85                 | 15.95                    | 15.96                  | 16.5                |
| 10              | 16QAM      | 25      | 0         | 15.49                 | 15.57                    | 15.61                  |                     |
| 10              | 16QAM      | 25      | 12        | 15.58                 | 15.59                    | 15.67                  |                     |
| 10              | 16QAM      | 25      | 25        | 15.62                 | 15.68                    | 15.68                  | 16.5                |
| 10              | 16QAM      | 50      | 0         | 15.49                 | 15.47                    | 15.57                  |                     |
| 10              | 64QAM      | 1       | 0         | 15.65                 | 15.70                    | 15.72                  |                     |
| 10              | 64QAM      | 1       | 25        | 15.72                 | 15.80                    | 15.83                  | 16.5                |
| 10              | 64QAM      | 1       | 49        | 15.75                 | 15.82                    | 15.85                  |                     |
| 10              | 64QAM      | 25      | 0         | 15.54                 | 15.59                    | 15.63                  |                     |
| 10              | 64QAM      | 25      | 12        | 15.59                 | 15.64                    | 15.71                  | 16.5                |
| 10              | 64QAM      | 25      | 25        | 15.64                 | 15.70                    | 15.70                  |                     |
| 10              | 64QAM      | 50      | 0         | 15.53                 | 15.51                    | 15.60                  |                     |
| Channel         |            |         |           | 20775                 | 21100                    | 21425                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |
| 5               | QPSK       | 1       | 0         | 15.32                 | 15.36                    | 15.53                  | 16.5                |
| 5               | QPSK       | 1       | 12        | 15.40                 | 15.51                    | 15.48                  |                     |
| 5               | QPSK       | 1       | 24        | 15.56                 | 15.61                    | 15.62                  |                     |
| 5               | QPSK       | 12      | 0         | 15.37                 | 15.48                    | 15.50                  | 16.5                |
| 5               | QPSK       | 12      | 7         | 15.50                 | 15.58                    | 15.61                  |                     |
| 5               | QPSK       | 12      | 13        | 15.64                 | 15.61                    | 15.62                  |                     |
| 5               | QPSK       | 25      | 0         | 15.54                 | 15.54                    | 15.61                  | 16.5                |
| 5               | 16QAM      | 1       | 0         | 15.90                 | 15.79                    | 15.85                  |                     |
| 5               | 16QAM      | 1       | 12        | 15.90                 | 15.89                    | 15.94                  |                     |
| 5               | 16QAM      | 1       | 24        | 15.90                 | 16.04                    | 15.87                  | 16.5                |
| 5               | 16QAM      | 12      | 0         | 15.42                 | 15.67                    | 15.70                  |                     |
| 5               | 16QAM      | 12      | 7         | 15.64                 | 15.59                    | 15.74                  |                     |
| 5               | 16QAM      | 12      | 13        | 15.62                 | 15.77                    | 15.75                  | 16.5                |
| 5               | 16QAM      | 25      | 0         | 15.42                 | 15.44                    | 15.67                  |                     |
| 5               | 64QAM      | 1       | 0         | 15.55                 | 15.67                    | 15.82                  |                     |
| 5               | 64QAM      | 1       | 12        | 15.80                 | 15.77                    | 15.90                  | 16.5                |
| 5               | 64QAM      | 1       | 24        | 15.67                 | 15.83                    | 15.79                  |                     |
| 5               | 64QAM      | 12      | 0         | 15.62                 | 15.58                    | 15.72                  |                     |
| 5               | 64QAM      | 12      | 7         | 15.55                 | 15.70                    | 15.79                  | 16.5                |
| 5               | 64QAM      | 12      | 13        | 15.61                 | 15.62                    | 15.68                  |                     |
| 5               | 64QAM      | 25      | 0         | 15.51                 | 15.53                    | 15.58                  |                     |





| Band 26_Ant 0   |            |         |           |                       |                          |                        |                     |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 20765                 | 20865                    | 20965                  |                     |  |  |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |  |  |
| 15              | QPSK       | 1       | 0         | 22.15                 | 22.16                    | 22.14                  | 23                  |  |  |
| 15              | QPSK       | 1       | 37        | 22.12                 | 22.15                    | 22.13                  |                     |  |  |
| 15              | QPSK       | 1       | 74        | 22.17                 | 22.14                    | 22.02                  |                     |  |  |
| 15              | QPSK       | 36      | 0         | 22.15                 | 22.13                    | 22.13                  |                     |  |  |
| 15              | QPSK       | 36      | 20        | 22.25                 | 22.20                    | 22.24                  | 23                  |  |  |
| 15              | QPSK       | 36      | 39        | 22.17                 | 22.19                    | 22.15                  |                     |  |  |
| 15              | QPSK       | 75      | 0         | 22.18                 | 22.10                    | 22.08                  |                     |  |  |
| 15              | 16QAM      | 1       | 0         | 22.54                 | 22.41                    | 22.44                  |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 22.47                 | 22.50                    | 22.32                  | 23                  |  |  |
| 15              | 16QAM      | 1       | 74        | 22.42                 | 22.45                    | 22.26                  |                     |  |  |
| 15              | 16QAM      | 36      | 0         | 21.11                 | 21.11                    | 21.12                  |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 21.25                 | 21.15                    | 21.24                  |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 21.18                 | 21.15                    | 21.12                  | 22                  |  |  |
| 15              | 16QAM      | 75      | 0         | 21.16                 | 21.14                    | 21.10                  |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 21.38                 | 21.30                    | 21.40                  |                     |  |  |
| 15              | 64QAM      | 1       | 37        | 21.39                 | 21.36                    | 21.40                  |                     |  |  |
| 15              | 64QAM      | 1       | 74        | 21.36                 | 21.33                    | 21.19                  | 21                  |  |  |
| 15              | 64QAM      | 36      | 0         | 20.14                 | 20.18                    | 20.11                  |                     |  |  |
| 15              | 64QAM      | 36      | 20        | 20.26                 | 20.22                    | 20.28                  |                     |  |  |
| 15              | 64QAM      | 36      | 39        | 20.21                 | 20.24                    | 20.18                  |                     |  |  |
| 15              | 64QAM      | 75      | 0         | 20.20                 | 20.12                    | 20.12                  | 21                  |  |  |
| Channel         |            |         |           | 26740                 | 26865                    | 26990                  |                     |  |  |
| Frequency (MHz) |            |         |           | 819                   | 831.5                    | 844                    |                     |  |  |
| 10              | QPSK       | 1       | 0         | 22.04                 | 22.12                    | 22.08                  | 23                  |  |  |
| 10              | QPSK       | 1       | 25        | 21.95                 | 22.03                    | 22.01                  |                     |  |  |
| 10              | QPSK       | 1       | 49        | 21.94                 | 22.10                    | 21.86                  |                     |  |  |
| 10              | QPSK       | 25      | 0         | 21.96                 | 21.97                    | 21.95                  |                     |  |  |
| 10              | QPSK       | 25      | 12        | 22.10                 | 22.07                    | 22.10                  | 23                  |  |  |
| 10              | QPSK       | 25      | 25        | 22.01                 | 22.14                    | 22.04                  |                     |  |  |
| 10              | QPSK       | 50      | 0         | 21.99                 | 22.04                    | 21.99                  |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 22.42                 | 22.48                    | 22.36                  |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 22.41                 | 22.38                    | 22.34                  | 23                  |  |  |
| 10              | 16QAM      | 1       | 49        | 22.28                 | 22.33                    | 22.29                  |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 20.92                 | 20.99                    | 20.96                  |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 21.10                 | 21.09                    | 21.11                  |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 21.03                 | 21.10                    | 21.07                  | 22                  |  |  |
| 10              | 16QAM      | 50      | 0         | 21.03                 | 21.02                    | 20.98                  |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 21.35                 | 21.32                    | 21.28                  |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 21.29                 | 21.35                    | 21.31                  |                     |  |  |
| 10              | 64QAM      | 1       | 49        | 21.19                 | 21.24                    | 21.09                  | 21                  |  |  |
| 10              | 64QAM      | 25      | 0         | 20.00                 | 20.00                    | 20.04                  |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 20.14                 | 20.16                    | 20.12                  |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 19.99                 | 20.11                    | 20.10                  |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 20.09                 | 20.03                    | 20.01                  | 21                  |  |  |
| Channel         |            |         |           | 26715                 | 26865                    | 27015                  |                     |  |  |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  |                     |  |  |
| 5               | QPSK       | 1       | 0         | 21.87                 | 21.96                    | 22.00                  | 23                  |  |  |
| 5               | QPSK       | 1       | 12        | 22.05                 | 22.04                    | 22.06                  |                     |  |  |
| 5               | QPSK       | 1       | 24        | 21.94                 | 22.03                    | 21.84                  |                     |  |  |
| 5               | QPSK       | 12      | 0         | 22.03                 | 22.07                    | 22.05                  |                     |  |  |
| 5               | QPSK       | 12      | 7         | 22.16                 | 22.11                    | 22.13                  | 23                  |  |  |
| 5               | QPSK       | 12      | 13        | 22.10                 | 22.10                    | 22.10                  |                     |  |  |
| 5               | QPSK       | 25      | 0         | 22.09                 | 22.05                    | 22.02                  |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 22.21                 | 22.33                    | 22.27                  |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 22.41                 | 22.25                    | 22.27                  | 23                  |  |  |
| 5               | 16QAM      | 1       | 24        | 22.25                 | 22.32                    | 22.22                  |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 21.04                 | 21.03                    | 21.06                  |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 21.13                 | 21.12                    | 21.16                  |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 21.15                 | 21.10                    | 21.10                  | 22                  |  |  |
| 5               | 16QAM      | 25      | 0         | 21.12                 | 21.07                    | 21.03                  |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 21.16                 | 21.23                    | 21.21                  |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 21.27                 | 21.32                    | 21.29                  |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 21.25                 | 21.28                    | 21.16                  | 21                  |  |  |
| 5               | 64QAM      | 12      | 0         | 20.12                 | 20.13                    | 20.08                  |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 20.21                 | 20.20                    | 20.20                  |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 20.15                 | 20.19                    | 20.12                  |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 20.13                 | 20.10                    | 20.04                  | 21                  |  |  |
| Channel         |            |         |           | 26705                 | 26865                    | 27025                  |                     |  |  |
| Frequency (MHz) |            |         |           | 815.5                 | 831.5                    | 847.5                  |                     |  |  |
| 3               | QPSK       | 1       | 0         | 21.92                 | 21.99                    | 22.03                  | 23                  |  |  |
| 3               | QPSK       | 1       | 8         | 22.10                 | 22.12                    | 22.04                  |                     |  |  |
| 3               | QPSK       | 1       | 14        | 21.94                 | 22.08                    | 21.85                  |                     |  |  |
| 3               | QPSK       | 8       | 0         | 22.03                 | 22.06                    | 22.08                  |                     |  |  |
| 3               | QPSK       | 8       | 4         | 22.12                 | 22.14                    | 22.12                  | 23                  |  |  |
| 3               | QPSK       | 8       | 7         | 22.11                 | 22.11                    | 22.06                  |                     |  |  |
| 3               | QPSK       | 15      | 0         | 22.11                 | 22.05                    | 22.08                  |                     |  |  |
| 3               | 16QAM      | 1       | 0         | 22.25                 | 22.25                    | 22.31                  |                     |  |  |
| 3               | 16QAM      | 1       | 8         | 22.31                 | 22.36                    | 22.27                  | 23                  |  |  |
| 3               | 16QAM      | 1       | 14        | 22.39                 | 22.35                    | 22.21                  |                     |  |  |
| 3               | 16QAM      | 8       | 0         | 21.09                 | 21.08                    | 21.11                  |                     |  |  |
| 3               | 16QAM      | 8       | 4         | 21.15                 | 21.17                    | 21.15                  |                     |  |  |
| 3               | 16QAM      | 8       | 7         | 21.17                 | 21.12                    | 21.10                  | 22                  |  |  |
| 3               | 16QAM      | 15      | 0         | 21.09                 | 21.08                    | 21.06                  |                     |  |  |
| 3               | 64QAM      | 1       | 0         | 21.11                 | 21.15                    | 21.19                  |                     |  |  |
| 3               | 64QAM      | 1       | 8         | 21.30                 | 21.34                    | 21.22                  |                     |  |  |
| 3               | 64QAM      | 1       | 14        | 21.21                 | 21.21                    | 21.10                  | 22                  |  |  |
| 3               | 64QAM      | 8       | 0         | 20.08                 | 20.08                    | 20.14                  |                     |  |  |
| 3               | 64QAM      | 8       | 4         | 20.19                 | 20.20                    | 20.17                  |                     |  |  |
| 3               | 64QAM      | 8       | 7         | 20.15                 | 20.17                    | 20.12                  |                     |  |  |
| 3               | 64QAM      | 15      | 0         | 20.13                 | 20.08                    | 20.07                  | 21                  |  |  |
| Channel         |            |         |           | 26697                 | 26865                    | 27033                  |                     |  |  |
| Frequency (MHz) |            |         |           | 814.7                 | 831.5                    | 848.3                  |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 21.86                 | 21.86                    | 21.89                  | 23                  |  |  |
| 1.4             | QPSK       | 1       | 3         | 21.99                 | 21.98                    | 21.96                  |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 21.99                 | 21.95                    | 21.87                  |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 21.92                 | 21.84                    | 21.80                  |                     |  |  |
| 1.4             | QPSK       | 3       | 1         | 21.98                 | 21.92                    | 21.84                  | 23                  |  |  |
| 1.4             | QPSK       | 3       | 3         | 21.94                 | 21.92                    | 21.90                  |                     |  |  |
| 1.4             | QPSK       | 6       | 0         | 22.03                 | 21.96                    | 22.01                  |                     |  |  |
| 1.4             | 16QAM      | 1       | 0         | 22.23                 | 22.16                    | 22.12                  |                     |  |  |
| 1.4             | 16QAM      | 1       | 3         | 22.35                 | 22.31                    | 22.27                  | 23                  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 22.30                 | 22.30                    | 22.12                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 0         | 21.96                 | 21.92                    | 21.82                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 1         | 22.02                 | 21.98                    | 21.93                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 21.93                 | 22.05                    | 21.91                  | 22                  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 21.10                 | 21.06                    | 21.07                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 0         | 21.15                 | 21.11                    | 21.06                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 3         | 21.23                 | 21.15                    | 21.12                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 5         | 21.13                 | 21.13                    | 21.08                  | 22                  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 21.13                 | 21.08                    | 21.09                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 1         | 21.15                 | 21.10                    | 21.06                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 3         | 21.14                 | 21.17                    | 21.06                  |                     |  |  |
| 1.4             | 64QAM      | 6       | 0         | 19.99                 | 19.95                    | 19.99                  | 21                  |  |  |





| Band 2_Ant 2    |            |         |           |                               |                             |               |
|-----------------|------------|---------|-----------|-------------------------------|-----------------------------|---------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Middle Ch / Freq. 18900 | Power High Ch / Freq. 19100 | Tune-up (dBm) |
| Channel         |            |         |           | 1880                          | 1900                        |               |
| Frequency (MHz) |            |         |           | 1880                          | 1900                        |               |
| 20              | QPSK       | 1       | 0         | 17.02                         | 17.03                       | 18.5          |
| 20              | QPSK       | 1       | 49        | 16.97                         | 17.01                       |               |
| 20              | QPSK       | 1       | 99        | 16.96                         | 16.93                       |               |
| 20              | QPSK       | 50      | 0         | 16.99                         | 17.01                       | 18.5          |
| 20              | QPSK       | 50      | 24        | 17.13                         | 17.09                       |               |
| 20              | QPSK       | 50      | 50        | 17.10                         | 17.10                       |               |
| 20              | QPSK       | 100     | 0         | 17.05                         | 17.05                       | 18.5          |
| 20              | 16QAM      | 1       | 0         | 17.35                         | 17.38                       |               |
| 20              | 16QAM      | 1       | 49        | 17.37                         | 17.41                       |               |
| 20              | 16QAM      | 1       | 99        | 17.34                         | 17.34                       | 18.5          |
| 20              | 16QAM      | 50      | 0         | 17.00                         | 17.02                       |               |
| 20              | 16QAM      | 50      | 24        | 17.16                         | 17.11                       |               |
| 20              | 16QAM      | 50      | 50        | 17.12                         | 17.13                       | 18.5          |
| 20              | 16QAM      | 100     | 0         | 17.09                         | 17.03                       |               |
| 20              | 64QAM      | 1       | 0         | 17.28                         | 17.31                       |               |
| 20              | 64QAM      | 1       | 49        | 17.23                         | 17.28                       | 18.5          |
| 20              | 64QAM      | 1       | 99        | 17.21                         | 17.19                       |               |
| 20              | 64QAM      | 50      | 0         | 17.03                         | 17.06                       |               |
| 20              | 64QAM      | 50      | 24        | 17.18                         | 17.12                       | 18.5          |
| 20              | 64QAM      | 50      | 50        | 17.15                         | 17.18                       |               |
| 20              | 64QAM      | 100     | 0         | 17.13                         | 17.07                       |               |
| Channel         |            |         |           | 18900                         | 19125                       | Tune-up (dBm) |
| Frequency (MHz) |            |         |           | 1890                          | 1902.5                      |               |
| 15              | QPSK       | 1       | 0         | 17.01                         | 17.06                       | 18.5          |
| 15              | QPSK       | 1       | 37        | 16.98                         | 16.97                       |               |
| 15              | QPSK       | 1       | 74        | 17.01                         | 16.97                       |               |
| 15              | QPSK       | 36      | 0         | 17.00                         | 17.04                       | 18.5          |
| 15              | QPSK       | 36      | 20        | 17.12                         | 17.18                       |               |
| 15              | QPSK       | 36      | 39        | 17.11                         | 17.12                       |               |
| 15              | QPSK       | 75      | 0         | 17.11                         | 17.04                       | 18.5          |
| 15              | 16QAM      | 1       | 0         | 17.37                         | 17.40                       |               |
| 15              | 16QAM      | 1       | 37        | 17.36                         | 17.40                       |               |
| 15              | 16QAM      | 1       | 74        | 17.34                         | 17.32                       | 18.5          |
| 15              | 16QAM      | 36      | 0         | 17.03                         | 17.04                       |               |
| 15              | 16QAM      | 36      | 20        | 17.14                         | 17.18                       |               |
| 15              | 16QAM      | 36      | 39        | 17.14                         | 17.14                       | 18.5          |
| 15              | 16QAM      | 75      | 0         | 17.12                         | 17.06                       |               |
| 15              | 64QAM      | 1       | 0         | 17.25                         | 17.30                       |               |
| 15              | 64QAM      | 1       | 37        | 17.23                         | 17.28                       | 18.5          |
| 15              | 64QAM      | 1       | 74        | 17.25                         | 17.22                       |               |
| 15              | 64QAM      | 36      | 0         | 17.04                         | 17.09                       |               |
| 15              | 64QAM      | 36      | 20        | 17.19                         | 17.23                       | 18.5          |
| 15              | 64QAM      | 36      | 39        | 17.17                         | 17.18                       |               |
| 15              | 64QAM      | 75      | 0         | 17.13                         | 17.07                       |               |
| Channel         |            |         |           | 18900                         | 19150                       | Tune-up (dBm) |
| Frequency (MHz) |            |         |           | 1890                          | 1905                        |               |
| 10              | QPSK       | 1       | 0         | 16.53                         | 16.92                       | 18.5          |
| 10              | QPSK       | 1       | 25        | 16.86                         | 16.88                       |               |
| 10              | QPSK       | 1       | 49        | 16.65                         | 16.84                       |               |
| 10              | QPSK       | 25      | 0         | 16.83                         | 16.84                       | 18.5          |
| 10              | QPSK       | 25      | 12        | 16.98                         | 16.93                       |               |
| 10              | QPSK       | 25      | 25        | 16.88                         | 16.88                       |               |
| 10              | QPSK       | 50      | 0         | 16.91                         | 16.85                       | 18.5          |
| 10              | 16QAM      | 1       | 0         | 16.91                         | 17.30                       |               |
| 10              | 16QAM      | 1       | 25        | 17.25                         | 17.25                       |               |
| 10              | 16QAM      | 1       | 49        | 16.96                         | 17.22                       | 18.5          |
| 10              | 16QAM      | 25      | 0         | 16.83                         | 16.87                       |               |
| 10              | 16QAM      | 25      | 12        | 17.02                         | 16.95                       |               |
| 10              | 16QAM      | 25      | 25        | 16.90                         | 16.90                       | 18.5          |
| 10              | 16QAM      | 50      | 0         | 16.93                         | 16.93                       |               |
| 10              | 64QAM      | 1       | 0         | 16.80                         | 17.17                       |               |
| 10              | 64QAM      | 1       | 25        | 17.18                         | 17.20                       | 18.5          |
| 10              | 64QAM      | 1       | 49        | 16.89                         | 17.15                       |               |
| 10              | 64QAM      | 25      | 0         | 16.89                         | 16.90                       |               |
| 10              | 64QAM      | 25      | 12        | 17.06                         | 17.00                       | 18.5          |
| 10              | 64QAM      | 25      | 25        | 16.90                         | 16.92                       |               |
| 10              | 64QAM      | 50      | 0         | 16.96                         | 16.91                       |               |
| Channel         |            |         |           | 18900                         | 19175                       | Tune-up (dBm) |
| Frequency (MHz) |            |         |           | 1890                          | 1907.5                      |               |
| 5               | QPSK       | 1       | 0         | 16.58                         | 16.89                       | 18.5          |
| 5               | QPSK       | 1       | 12        | 16.81                         | 16.94                       |               |
| 5               | QPSK       | 1       | 24        | 16.51                         | 16.77                       |               |
| 5               | QPSK       | 12      | 0         | 16.74                         | 16.80                       | 18.5          |
| 5               | QPSK       | 12      | 7         | 17.02                         | 16.88                       |               |
| 5               | QPSK       | 12      | 13        | 16.83                         | 16.78                       |               |
| 5               | QPSK       | 25      | 0         | 16.83                         | 16.91                       | 18.5          |
| 5               | 16QAM      | 1       | 0         | 16.84                         | 17.39                       |               |
| 5               | 16QAM      | 1       | 12        | 17.25                         | 17.16                       |               |
| 5               | 16QAM      | 1       | 24        | 16.89                         | 17.15                       | 18.5          |
| 5               | 16QAM      | 12      | 0         | 16.90                         | 16.92                       |               |
| 5               | 16QAM      | 12      | 7         | 16.97                         | 16.91                       |               |
| 5               | 16QAM      | 12      | 13        | 16.99                         | 16.81                       | 18.5          |
| 5               | 16QAM      | 25      | 0         | 16.93                         | 16.94                       |               |
| 5               | 64QAM      | 1       | 0         | 16.90                         | 17.10                       |               |
| 5               | 64QAM      | 1       | 12        | 17.10                         | 17.30                       | 18.5          |
| 5               | 64QAM      | 1       | 24        | 16.79                         | 17.08                       |               |
| 5               | 64QAM      | 12      | 0         | 16.88                         | 17.00                       |               |
| 5               | 64QAM      | 12      | 7         | 17.16                         | 16.99                       | 18.5          |
| 5               | 64QAM      | 12      | 13        | 16.94                         | 16.92                       |               |
| 5               | 64QAM      | 25      | 0         | 16.92                         | 16.98                       |               |
| Channel         |            |         |           | 18900                         | 19185                       | Tune-up (dBm) |
| Frequency (MHz) |            |         |           | 1890                          | 1908.5                      |               |
| 3               | QPSK       | 1       | 0         | 16.57                         | 16.85                       | 18.5          |
| 3               | QPSK       | 1       | 8         | 16.90                         | 16.89                       |               |
| 3               | QPSK       | 1       | 14        | 16.51                         | 16.76                       |               |
| 3               | QPSK       | 8       | 0         | 16.73                         | 16.92                       | 18.5          |
| 3               | QPSK       | 8       | 4         | 16.90                         | 17.02                       |               |
| 3               | QPSK       | 8       | 7         | 16.93                         | 16.94                       |               |
| 3               | QPSK       | 15      | 0         | 16.97                         | 16.84                       | 18.5          |
| 3               | 16QAM      | 1       | 0         | 16.83                         | 17.38                       |               |
| 3               | 16QAM      | 1       | 8         | 17.25                         | 17.25                       |               |
| 3               | 16QAM      | 1       | 14        | 16.89                         | 17.32                       | 18.5          |
| 3               | 16QAM      | 8       | 0         | 16.84                         | 16.77                       |               |
| 3               | 16QAM      | 8       | 4         | 16.92                         | 16.86                       |               |
| 3               | 16QAM      | 8       | 7         | 16.97                         | 16.95                       | 18.5          |
| 3               | 16QAM      | 15      | 0         | 16.98                         | 16.94                       |               |
| 3               | 64QAM      | 1       | 0         | 16.72                         | 17.14                       |               |
| 3               | 64QAM      | 1       | 8         | 17.12                         | 17.15                       | 18.5          |
| 3               | 64QAM      | 1       | 14        | 16.99                         | 17.20                       |               |
| 3               | 64QAM      | 8       | 0         | 16.81                         | 16.86                       |               |
| 3               | 64QAM      | 8       | 4         | 17.02                         | 16.96                       | 18.5          |
| 3               | 64QAM      | 8       | 7         | 16.96                         | 16.96                       |               |
| 3               | 64QAM      | 15      | 0         | 17.05                         | 16.94                       |               |
| Channel         |            |         |           | 18900                         | 19193                       | Tune-up (dBm) |
| Frequency (MHz) |            |         |           | 1890                          | 1909.3                      |               |
| 1.4             | QPSK       | 1       | 0         | 16.84                         | 16.80                       | 18.5          |
| 1.4             | QPSK       | 1       | 3         | 16.89                         | 16.87                       |               |
| 1.4             | QPSK       | 1       | 5         | 16.75                         | 16.74                       |               |
| 1.4             | QPSK       | 3       | 0         | 16.84                         | 16.83                       | 18.5          |
| 1.4             | QPSK       | 3       | 1         | 16.86                         | 16.84                       |               |
| 1.4             | QPSK       | 3       | 3         | 16.81                         | 16.77                       |               |
| 1.4             | QPSK       | 6       | 0         | 16.89                         | 16.87                       | 18.5          |
| 1.4             | 16QAM      | 1       | 0         | 17.19                         | 17.13                       |               |
| 1.4             | 16QAM      | 1       | 2         | 17.23                         | 17.20                       |               |
| 1.4             | 16QAM      | 1       | 5         | 17.12                         | 17.09                       | 18.5          |
| 1.4             | 16QAM      | 3       | 0         | 16.96                         | 16.91                       |               |
| 1.4             | 16QAM      | 3       | 1         | 16.97                         | 16.94                       |               |
| 1.4             | 16QAM      | 3       | 3         | 16.90                         | 16.87                       | 18.5          |
| 1.4             | 16QAM      | 6       | 0         | 17.02                         | 16.96                       |               |
| 1.4             | 64QAM      | 1       | 0         | 17.12                         | 17.05                       |               |
| 1.4             | 64QAM      | 1       | 3         | 17.13                         | 17.09                       | 18.5          |
| 1.4             | 64QAM      | 1       | 5         | 17.03                         | 16.98                       |               |
| 1.4             | 64QAM      | 3       | 0         | 17.06                         | 17.05                       |               |
| 1.4             | 64QAM      | 3       | 1         | 17.11                         | 17.10                       | 18.5          |
| 1.4             | 64QAM      | 3       | 3         | 17.06                         | 17.03                       |               |
| 1.4             | 64QAM      | 6       | 0         | 16.94                         | 16.93                       |               |



| Band 5_Ant 0    |            |         |           |                                   |                                      |                                    |                           |  |  |
|-----------------|------------|---------|-----------|-----------------------------------|--------------------------------------|------------------------------------|---------------------------|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq.<br>20450 | Power Middle<br>Ch. / Freq.<br>20525 | Power High<br>Ch. / Freq.<br>20600 | Tune-up<br>limit<br>(dBm) |  |  |
| Channel         |            |         |           | 829                               | 836.5                                | 844                                |                           |  |  |
| Frequency (MHz) |            |         |           | 21.99                             | 21.99                                | 22.03                              |                           |  |  |
| 10              | QPSK       | 1       | 0         | 21.99                             | 21.99                                | 22.03                              |                           |  |  |
| 10              | QPSK       | 1       | 25        | 21.94                             | 21.96                                | 21.96                              |                           |  |  |
| 10              | QPSK       | 1       | 49        | 21.97                             | 21.93                                | 21.91                              |                           |  |  |
| 10              | QPSK       | 25      | 0         | 22.03                             | 22.02                                | 22.03                              |                           |  |  |
| 10              | QPSK       | 25      | 12        | 22.11                             | 22.09                                | 22.05                              |                           |  |  |
| 10              | QPSK       | 25      | 25        | 22.07                             | 22.06                                | 22.05                              |                           |  |  |
| 10              | QPSK       | 50      | 0         | 22.02                             | 22.01                                | 21.95                              |                           |  |  |
| 10              | 16QAM      | 1       | 0         | 22.36                             | 22.37                                | 22.36                              |                           |  |  |
| 10              | 16QAM      | 1       | 25        | 22.35                             | 22.36                                | 22.33                              |                           |  |  |
| 10              | 16QAM      | 1       | 49        | 22.33                             | 22.30                                | 22.31                              |                           |  |  |
| 10              | 16QAM      | 25      | 0         | 22.00                             | 22.04                                | 22.04                              |                           |  |  |
| 10              | 16QAM      | 25      | 12        | 22.12                             | 22.14                                | 22.05                              |                           |  |  |
| 10              | 16QAM      | 25      | 25        | 22.05                             | 22.09                                | 22.07                              |                           |  |  |
| 10              | 16QAM      | 50      | 0         | 22.02                             | 22.04                                | 21.96                              |                           |  |  |
| 10              | 64QAM      | 1       | 0         | 22.18                             | 22.20                                | 22.23                              |                           |  |  |
| 10              | 64QAM      | 1       | 25        | 22.23                             | 22.25                                | 22.26                              |                           |  |  |
| 10              | 64QAM      | 1       | 49        | 22.24                             | 22.21                                | 22.18                              |                           |  |  |
| 10              | 64QAM      | 25      | 0         | 21.09                             | 21.07                                | 21.10                              |                           |  |  |
| 10              | 64QAM      | 25      | 12        | 21.18                             | 21.16                                | 21.12                              |                           |  |  |
| 10              | 64QAM      | 25      | 25        | 21.10                             | 21.11                                | 21.11                              |                           |  |  |
| 10              | 64QAM      | 50      | 0         | 21.07                             | 21.06                                | 21.01                              |                           |  |  |
| Channel         |            |         |           | 20425                             | 20525                                | 20625                              | Tune-up<br>limit<br>(dBm) |  |  |
| Frequency (MHz) |            |         |           | 826.5                             | 836.5                                | 846.5                              |                           |  |  |
| 5               | QPSK       | 1       | 0         | 21.87                             | 21.90                                | 21.85                              |                           |  |  |
| 5               | QPSK       | 1       | 12        | 22.00                             | 22.02                                | 22.00                              |                           |  |  |
| 5               | QPSK       | 1       | 24        | 21.96                             | 21.96                                | 21.91                              |                           |  |  |
| 5               | QPSK       | 12      | 0         | 22.00                             | 22.02                                | 22.00                              |                           |  |  |
| 5               | QPSK       | 12      | 7         | 22.10                             | 22.10                                | 22.10                              |                           |  |  |
| 5               | QPSK       | 12      | 13        | 22.07                             | 22.08                                | 22.04                              |                           |  |  |
| 5               | QPSK       | 25      | 0         | 22.07                             | 22.06                                | 22.06                              |                           |  |  |
| 5               | 16QAM      | 1       | 0         | 22.22                             | 22.23                                | 22.21                              |                           |  |  |
| 5               | 16QAM      | 1       | 12        | 22.32                             | 22.31                                | 22.25                              |                           |  |  |
| 5               | 16QAM      | 1       | 24        | 22.29                             | 22.28                                | 22.25                              |                           |  |  |
| 5               | 16QAM      | 12      | 0         | 22.03                             | 22.02                                | 22.05                              |                           |  |  |
| 5               | 16QAM      | 12      | 7         | 22.12                             | 22.14                                | 22.13                              |                           |  |  |
| 5               | 16QAM      | 12      | 13        | 22.10                             | 22.10                                | 22.07                              |                           |  |  |
| 5               | 16QAM      | 25      | 0         | 22.12                             | 22.11                                | 22.07                              |                           |  |  |
| 5               | 64QAM      | 1       | 0         | 22.14                             | 22.12                                | 22.12                              |                           |  |  |
| 5               | 64QAM      | 1       | 12        | 22.19                             | 22.22                                | 22.17                              |                           |  |  |
| 5               | 64QAM      | 1       | 24        | 22.14                             | 22.20                                | 22.12                              |                           |  |  |
| 5               | 64QAM      | 12      | 0         | 21.09                             | 21.10                                | 21.09                              |                           |  |  |
| 5               | 64QAM      | 12      | 7         | 21.20                             | 21.19                                | 21.19                              |                           |  |  |
| 5               | 64QAM      | 12      | 13        | 21.17                             | 21.18                                | 21.13                              |                           |  |  |
| 5               | 64QAM      | 25      | 0         | 21.11                             | 21.10                                | 21.09                              |                           |  |  |
| Channel         |            |         |           | 20415                             | 20525                                | 20635                              | Tune-up<br>limit<br>(dBm) |  |  |
| Frequency (MHz) |            |         |           | 825.5                             | 836.5                                | 847.5                              |                           |  |  |
| 3               | QPSK       | 1       | 0         | 21.88                             | 21.92                                | 21.89                              |                           |  |  |
| 3               | QPSK       | 1       | 8         | 22.04                             | 22.05                                | 22.01                              |                           |  |  |
| 3               | QPSK       | 1       | 14        | 21.99                             | 21.97                                | 21.92                              |                           |  |  |
| 3               | QPSK       | 8       | 0         | 22.00                             | 22.00                                | 22.02                              |                           |  |  |
| 3               | QPSK       | 8       | 4         | 22.10                             | 22.09                                | 22.11                              |                           |  |  |
| 3               | QPSK       | 8       | 7         | 22.07                             | 22.09                                | 22.06                              |                           |  |  |
| 3               | QPSK       | 15      | 0         | 22.07                             | 22.07                                | 22.00                              |                           |  |  |
| 3               | 16QAM      | 1       | 0         | 22.20                             | 22.30                                | 22.28                              |                           |  |  |
| 3               | 16QAM      | 1       | 8         | 22.30                             | 22.34                                | 22.32                              |                           |  |  |
| 3               | 16QAM      | 1       | 14        | 22.33                             | 22.36                                | 22.27                              |                           |  |  |
| 3               | 16QAM      | 8       | 0         | 22.08                             | 22.08                                | 22.06                              |                           |  |  |
| 3               | 16QAM      | 8       | 4         | 22.18                             | 22.18                                | 22.16                              |                           |  |  |
| 3               | 16QAM      | 8       | 7         | 22.15                             | 22.14                                | 22.10                              |                           |  |  |
| 3               | 16QAM      | 15      | 0         | 22.12                             | 22.14                                | 22.03                              |                           |  |  |
| 3               | 64QAM      | 1       | 0         | 22.09                             | 22.12                                | 22.12                              |                           |  |  |
| 3               | 64QAM      | 1       | 8         | 22.24                             | 22.27                                | 22.25                              |                           |  |  |
| 3               | 64QAM      | 1       | 14        | 22.16                             | 22.23                                | 22.16                              |                           |  |  |
| 3               | 64QAM      | 8       | 0         | 21.10                             | 21.10                                | 21.09                              |                           |  |  |
| 3               | 64QAM      | 8       | 4         | 21.17                             | 21.17                                | 21.16                              |                           |  |  |
| 3               | 64QAM      | 8       | 7         | 21.15                             | 21.17                                | 21.15                              |                           |  |  |
| 3               | 64QAM      | 15      | 0         | 21.12                             | 21.11                                | 21.04                              |                           |  |  |
| Channel         |            |         |           | 20407                             | 20525                                | 20643                              | Tune-up<br>limit<br>(dBm) |  |  |
| Frequency (MHz) |            |         |           | 824.7                             | 836.5                                | 848.3                              |                           |  |  |
| 1.4             | QPSK       | 1       | 0         | 21.87                             | 21.94                                | 21.89                              |                           |  |  |
| 1.4             | QPSK       | 1       | 3         | 21.98                             | 21.98                                | 21.97                              |                           |  |  |
| 1.4             | QPSK       | 1       | 5         | 21.99                             | 21.98                                | 21.85                              |                           |  |  |
| 1.4             | QPSK       | 3       | 0         | 21.90                             | 21.94                                | 21.89                              |                           |  |  |
| 1.4             | QPSK       | 3       | 1         | 21.93                             | 21.96                                | 21.94                              |                           |  |  |
| 1.4             | QPSK       | 3       | 3         | 21.94                             | 21.94                                | 21.89                              |                           |  |  |
| 1.4             | QPSK       | 6       | 0         | 22.01                             | 22.01                                | 21.98                              |                           |  |  |
| 1.4             | 16QAM      | 1       | 0         | 22.17                             | 22.27                                | 22.19                              |                           |  |  |
| 1.4             | 16QAM      | 1       | 3         | 22.32                             | 22.31                                | 22.30                              |                           |  |  |
| 1.4             | 16QAM      | 1       | 5         | 22.24                             | 22.25                                | 22.18                              |                           |  |  |
| 1.4             | 16QAM      | 3       | 0         | 22.03                             | 22.01                                | 21.98                              |                           |  |  |
| 1.4             | 16QAM      | 3       | 1         | 22.07                             | 22.08                                | 22.00                              |                           |  |  |
| 1.4             | 16QAM      | 3       | 3         | 22.04                             | 22.01                                | 21.94                              |                           |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.12                             | 22.10                                | 22.06                              |                           |  |  |
| 1.4             | 64QAM      | 1       | 0         | 22.07                             | 22.16                                | 22.14                              |                           |  |  |
| 1.4             | 64QAM      | 1       | 3         | 22.18                             | 22.22                                | 22.17                              |                           |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.13                             | 22.13                                | 22.08                              |                           |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.12                             | 22.12                                | 22.11                              |                           |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.18                             | 22.17                                | 22.16                              |                           |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.12                             | 22.13                                | 22.10                              |                           |  |  |
| 1.4             | 64QAM      | 6       | 0         | 21.03                             | 21.02                                | 21.00                              |                           |  |  |

| Band 7_Ant 2    |            |         |           |                       |                          |                        |                     |  |  |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|--|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 20850                 | 21100                    | 21350                  |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   |                     |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 15.60                 | 15.60                    | 15.66                  | 17                  |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 15.61                 | 15.65                    | 15.74                  |                     |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 15.70                 | 15.71                    | 15.74                  |                     |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 15.69                 | 15.78                    | 15.80                  | 17                  |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 15.78                 | 15.78                    | 15.84                  |                     |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 15.81                 | 15.83                    | 15.88                  |                     |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 15.74                 | 15.68                    | 15.73                  | 17                  |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 15.97                 | 15.94                    | 16.07                  |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 15.97                 | 16.05                    | 16.10                  |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 16.05                 | 16.08                    | 16.09                  | 17                  |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 15.74                 | 15.76                    | 15.83                  |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 15.83                 | 15.82                    | 15.86                  |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 15.87                 | 15.87                    | 15.90                  | 17                  |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 15.71                 | 15.66                    | 15.74                  |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 15.80                 | 15.79                    | 15.88                  |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 15.89                 | 15.95                    | 15.97                  | 17                  |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 15.95                 | 15.98                    | 16.02                  |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 15.79                 | 15.82                    | 15.86                  |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 15.87                 | 15.87                    | 15.89                  | 17                  |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 15.86                 | 15.93                    | 15.94                  |                     |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 15.74                 | 15.71                    | 15.80                  |                     |  |  |  |  |
| Channel         |            |         |           | 20825                 | 21100                    | 21375                  | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 15.64                 | 15.64                    | 15.74                  | 17                  |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 15.64                 | 15.63                    | 15.74                  |                     |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 15.71                 | 15.75                    | 15.79                  |                     |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 15.74                 | 15.73                    | 15.80                  | 17                  |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 15.80                 | 15.75                    | 15.88                  |                     |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 15.82                 | 15.85                    | 15.90                  |                     |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 15.73                 | 15.69                    | 15.75                  | 17                  |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 15.97                 | 15.96                    | 16.01                  |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 15.96                 | 16.04                    | 16.06                  |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 16.04                 | 16.08                    | 16.09                  | 17                  |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 15.76                 | 15.75                    | 15.81                  |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 15.84                 | 15.80                    | 15.90                  |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 15.84                 | 15.86                    | 15.90                  | 17                  |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 15.76                 | 15.74                    | 15.78                  |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 15.81                 | 15.80                    | 15.92                  |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 15.88                 | 15.94                    | 15.99                  | 17                  |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 15.94                 | 15.98                    | 16.03                  |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 15.75                 | 15.79                    | 15.85                  |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 15.89                 | 15.84                    | 15.94                  | 17                  |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 15.90                 | 15.92                    | 15.95                  |                     |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 15.78                 | 15.74                    | 15.80                  |                     |  |  |  |  |
| Channel         |            |         |           | 20800                 | 21100                    | 21400                  | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 2505                  | 2535                     | 2565                   |                     |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 15.41                 | 15.46                    | 15.47                  | 17                  |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 15.41                 | 15.53                    | 15.52                  |                     |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 15.46                 | 15.54                    | 15.56                  |                     |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 15.45                 | 15.55                    | 15.58                  | 17                  |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 15.57                 | 15.56                    | 15.68                  |                     |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 15.56                 | 15.65                    | 15.65                  |                     |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 15.49                 | 15.50                    | 15.59                  | 17                  |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 15.82                 | 15.85                    | 15.90                  |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 15.83                 | 15.94                    | 15.92                  |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 15.85                 | 15.95                    | 15.96                  | 17                  |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 15.49                 | 15.57                    | 15.61                  |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 15.58                 | 15.59                    | 15.67                  |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 15.62                 | 15.68                    | 15.68                  | 17                  |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 15.49                 | 15.47                    | 15.57                  |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 15.65                 | 15.70                    | 15.72                  |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 15.72                 | 15.80                    | 15.83                  | 17                  |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 15.75                 | 15.82                    | 15.85                  |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 15.54                 | 15.59                    | 15.63                  |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 15.59                 | 15.64                    | 15.71                  | 17                  |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 15.64                 | 15.70                    | 15.70                  |                     |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 15.53                 | 15.51                    | 15.60                  |                     |  |  |  |  |
| Channel         |            |         |           | 20775                 | 21100                    | 21425                  | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 15.32                 | 15.36                    | 15.53                  | 17                  |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 15.40                 | 15.51                    | 15.48                  |                     |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 15.56                 | 15.61                    | 15.62                  |                     |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 15.37                 | 15.48                    | 15.50                  | 17                  |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 15.50                 | 15.58                    | 15.61                  |                     |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 15.64                 | 15.61                    | 15.62                  |                     |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 15.54                 | 15.54                    | 15.61                  | 17                  |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 15.90                 | 15.79                    | 15.85                  |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 15.90                 | 15.89                    | 15.94                  |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 15.90                 | 16.04                    | 15.87                  | 17                  |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 15.42                 | 15.67                    | 15.70                  |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 15.64                 | 15.59                    | 15.74                  |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 15.62                 | 15.77                    | 15.75                  | 17                  |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 15.42                 | 15.44                    | 15.67                  |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 15.55                 | 15.67                    | 15.82                  |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 15.80                 | 15.77                    | 15.90                  | 17                  |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 15.67                 | 15.83                    | 15.79                  |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 15.62                 | 15.58                    | 15.72                  |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 15.55                 | 15.70                    | 15.79                  | 17                  |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 15.61                 | 15.62                    | 15.68                  |                     |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 15.51                 | 15.53                    | 15.58                  |                     |  |  |  |  |

| Band 25_Ant 2   |            |         |           |                       |                          |                        |                     |                     |  |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |                     |  |  |  |
| Channel         |            |         |           | 20140                 | 20340                    | 20590                  |                     |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1905                   |                     |                     |  |  |  |
| 20              | QPSK       | 1       | 0         | 17.29                 | 17.21                    | 17.25                  | 18.5                |                     |  |  |  |
| 20              | QPSK       | 1       | 49        | 17.15                 | 17.13                    | 17.19                  |                     |                     |  |  |  |
| 20              | QPSK       | 1       | 99        | 17.10                 | 17.14                    | 17.10                  |                     |                     |  |  |  |
| 20              | QPSK       | 50      | 0         | 17.32                 | 17.26                    | 17.28                  | 18.5                |                     |  |  |  |
| 20              | QPSK       | 50      | 24        | 17.35                 | 17.29                    | 17.27                  |                     |                     |  |  |  |
| 20              | QPSK       | 50      | 50        | 17.29                 | 17.26                    | 17.29                  |                     |                     |  |  |  |
| 20              | 16QAM      | 1       | 0         | 17.64                 | 17.53                    | 17.60                  | 18.5                |                     |  |  |  |
| 20              | 16QAM      | 1       | 49        | 17.54                 | 17.53                    | 17.54                  |                     |                     |  |  |  |
| 20              | 16QAM      | 1       | 99        | 17.41                 | 17.47                    | 17.43                  |                     |                     |  |  |  |
| 20              | 16QAM      | 50      | 0         | 17.38                 | 17.22                    | 17.26                  | 18.5                |                     |  |  |  |
| 20              | 16QAM      | 50      | 24        | 17.27                 | 17.29                    | 17.29                  |                     |                     |  |  |  |
| 20              | 16QAM      | 50      | 50        | 17.27                 | 17.26                    | 17.28                  |                     |                     |  |  |  |
| 20              | 16QAM      | 100     | 0         | 17.17                 | 17.18                    | 17.25                  | 18.5                |                     |  |  |  |
| 20              | 64QAM      | 1       | 0         | 17.51                 | 17.37                    | 17.44                  |                     |                     |  |  |  |
| 20              | 64QAM      | 1       | 49        | 17.37                 | 17.37                    | 17.43                  |                     |                     |  |  |  |
| 20              | 64QAM      | 1       | 99        | 17.34                 | 17.38                    | 17.34                  | 18.5                |                     |  |  |  |
| 20              | 64QAM      | 50      | 0         | 17.32                 | 17.28                    | 17.28                  |                     |                     |  |  |  |
| 20              | 64QAM      | 50      | 24        | 17.32                 | 17.29                    | 17.29                  |                     |                     |  |  |  |
| 20              | 64QAM      | 50      | 50        | 17.24                 | 17.31                    | 17.28                  | 18.5                |                     |  |  |  |
| 20              | 64QAM      | 100     | 0         | 17.20                 | 17.21                    | 17.29                  |                     |                     |  |  |  |
| Channel         |            |         |           | 26115                 | 26340                    | 26615                  |                     | Tune-up limit (dBm) |  |  |  |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1907.5                 |                     |                     |  |  |  |
| 15              | QPSK       | 1       | 0         | 17.05                 | 17.20                    | 17.22                  | 18.5                |                     |  |  |  |
| 15              | QPSK       | 1       | 37        | 17.16                 | 17.14                    | 17.15                  |                     |                     |  |  |  |
| 15              | QPSK       | 1       | 74        | 17.02                 | 17.14                    | 17.12                  |                     |                     |  |  |  |
| 15              | QPSK       | 36      | 0         | 17.26                 | 17.12                    | 17.15                  | 18.5                |                     |  |  |  |
| 15              | QPSK       | 36      | 20        | 17.29                 | 17.29                    | 17.32                  |                     |                     |  |  |  |
| 15              | QPSK       | 36      | 39        | 17.24                 | 17.24                    | 17.25                  |                     |                     |  |  |  |
| 15              | QPSK       | 75      | 0         | 17.24                 | 17.21                    | 17.23                  | 18.5                |                     |  |  |  |
| 15              | 16QAM      | 1       | 0         | 17.31                 | 17.53                    | 17.58                  |                     |                     |  |  |  |
| 15              | 16QAM      | 1       | 37        | 17.46                 | 17.51                    | 17.54                  |                     |                     |  |  |  |
| 15              | 16QAM      | 1       | 74        | 17.31                 | 17.49                    | 17.45                  | 18.5                |                     |  |  |  |
| 15              | 16QAM      | 36      | 0         | 17.24                 | 17.12                    | 17.15                  |                     |                     |  |  |  |
| 15              | 16QAM      | 36      | 20        | 17.26                 | 17.29                    | 17.31                  |                     |                     |  |  |  |
| 15              | 16QAM      | 36      | 39        | 17.21                 | 17.25                    | 17.24                  | 18.5                |                     |  |  |  |
| 15              | 16QAM      | 75      | 0         | 17.22                 | 17.21                    | 17.25                  |                     |                     |  |  |  |
| 15              | 64QAM      | 1       | 0         | 17.28                 | 17.38                    | 17.41                  |                     |                     |  |  |  |
| 15              | 64QAM      | 1       | 37        | 17.40                 | 17.40                    | 17.44                  | 18.5                |                     |  |  |  |
| 15              | 64QAM      | 1       | 74        | 17.25                 | 17.36                    | 17.34                  |                     |                     |  |  |  |
| 15              | 64QAM      | 36      | 0         | 17.29                 | 17.14                    | 17.19                  |                     |                     |  |  |  |
| 15              | 64QAM      | 36      | 20        | 17.33                 | 17.30                    | 17.35                  | 18.5                |                     |  |  |  |
| 15              | 64QAM      | 36      | 39        | 17.25                 | 17.28                    | 17.28                  |                     |                     |  |  |  |
| 15              | 64QAM      | 75      | 0         | 17.25                 | 17.24                    | 17.24                  |                     |                     |  |  |  |
| Channel         |            |         |           | 26090                 | 26340                    | 26640                  | Tune-up limit (dBm) |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1910                   |                     |                     |  |  |  |
| 10              | QPSK       | 1       | 0         | 16.74                 | 16.66                    | 16.93                  | 18.5                |                     |  |  |  |
| 10              | QPSK       | 1       | 25        | 16.92                 | 16.89                    | 16.86                  |                     |                     |  |  |  |
| 10              | QPSK       | 1       | 49        | 16.93                 | 16.97                    | 16.87                  |                     |                     |  |  |  |
| 10              | QPSK       | 25      | 0         | 16.98                 | 16.86                    | 16.88                  | 18.5                |                     |  |  |  |
| 10              | QPSK       | 25      | 12        | 17.08                 | 17.03                    | 17.05                  |                     |                     |  |  |  |
| 10              | QPSK       | 25      | 25        | 16.99                 | 16.98                    | 16.98                  |                     |                     |  |  |  |
| 10              | QPSK       | 50      | 0         | 17.01                 | 16.98                    | 16.98                  | 18.5                |                     |  |  |  |
| 10              | 16QAM      | 1       | 0         | 17.11                 | 17.00                    | 17.28                  |                     |                     |  |  |  |
| 10              | 16QAM      | 1       | 25        | 17.27                 | 17.25                    | 17.26                  |                     |                     |  |  |  |
| 10              | 16QAM      | 1       | 49        | 16.99                 | 16.98                    | 17.22                  | 18.5                |                     |  |  |  |
| 10              | 16QAM      | 25      | 0         | 17.00                 | 16.87                    | 16.88                  |                     |                     |  |  |  |
| 10              | 16QAM      | 25      | 12        | 17.07                 | 17.03                    | 17.04                  |                     |                     |  |  |  |
| 10              | 16QAM      | 25      | 25        | 16.97                 | 16.99                    | 16.97                  | 18.5                |                     |  |  |  |
| 10              | 16QAM      | 50      | 0         | 16.99                 | 16.96                    | 16.98                  |                     |                     |  |  |  |
| 10              | 64QAM      | 1       | 0         | 17.01                 | 16.91                    | 17.14                  |                     |                     |  |  |  |
| 10              | 64QAM      | 1       | 25        | 17.19                 | 17.19                    | 17.19                  | 18.5                |                     |  |  |  |
| 10              | 64QAM      | 1       | 49        | 16.91                 | 16.91                    | 17.13                  |                     |                     |  |  |  |
| 10              | 64QAM      | 25      | 0         | 17.02                 | 16.91                    | 16.90                  |                     |                     |  |  |  |
| 10              | 64QAM      | 25      | 12        | 17.08                 | 17.09                    | 17.08                  | 18.5                |                     |  |  |  |
| 10              | 64QAM      | 25      | 25        | 17.00                 | 16.98                    | 17.02                  |                     |                     |  |  |  |
| 10              | 64QAM      | 50      | 0         | 17.04                 | 17.01                    | 17.01                  |                     |                     |  |  |  |
| Channel         |            |         |           | 26055                 | 26340                    | 26675                  | Tune-up limit (dBm) |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1912.5                 |                     |                     |  |  |  |
| 5               | QPSK       | 1       | 0         | 16.72                 | 16.74                    | 16.96                  | 18.5                |                     |  |  |  |
| 5               | QPSK       | 1       | 12        | 16.89                 | 16.97                    | 16.80                  |                     |                     |  |  |  |
| 5               | QPSK       | 1       | 24        | 16.95                 | 16.99                    | 16.76                  |                     |                     |  |  |  |
| 5               | QPSK       | 12      | 0         | 16.93                 | 16.88                    | 16.98                  | 18.5                |                     |  |  |  |
| 5               | QPSK       | 12      | 7         | 17.18                 | 17.08                    | 16.97                  |                     |                     |  |  |  |
| 5               | QPSK       | 12      | 13        | 16.91                 | 16.99                    | 16.93                  |                     |                     |  |  |  |
| 5               | QPSK       | 25      | 0         | 16.95                 | 16.97                    | 16.99                  | 18.5                |                     |  |  |  |
| 5               | 16QAM      | 1       | 0         | 17.11                 | 17.00                    | 17.38                  |                     |                     |  |  |  |
| 5               | 16QAM      | 1       | 12        | 17.24                 | 17.33                    | 17.19                  |                     |                     |  |  |  |
| 5               | 16QAM      | 1       | 24        | 17.05                 | 16.95                    | 17.13                  | 18.5                |                     |  |  |  |
| 5               | 16QAM      | 12      | 0         | 16.94                 | 16.77                    | 16.84                  |                     |                     |  |  |  |
| 5               | 16QAM      | 12      | 7         | 17.00                 | 16.95                    | 17.02                  |                     |                     |  |  |  |
| 5               | 16QAM      | 12      | 13        | 17.05                 | 17.02                    | 16.87                  | 18.5                |                     |  |  |  |
| 5               | 16QAM      | 25      | 0         | 17.04                 | 16.99                    | 16.98                  |                     |                     |  |  |  |
| 5               | 64QAM      | 1       | 0         | 16.92                 | 16.91                    | 17.10                  |                     |                     |  |  |  |
| 5               | 64QAM      | 1       | 12        | 17.22                 | 17.14                    | 17.11                  | 18.5                |                     |  |  |  |
| 5               | 64QAM      | 1       | 24        | 17.00                 | 16.95                    | 17.09                  |                     |                     |  |  |  |
| 5               | 64QAM      | 12      | 0         | 16.95                 | 16.81                    | 16.84                  |                     |                     |  |  |  |
| 5               | 64QAM      | 12      | 7         | 17.17                 | 17.05                    | 17.12                  | 18.5                |                     |  |  |  |
| 5               | 64QAM      | 12      | 13        | 17.00                 | 17.02                    | 17.06                  |                     |                     |  |  |  |
| 5               | 64QAM      | 25      | 0         | 16.97                 | 17.01                    | 17.02                  |                     |                     |  |  |  |
| Channel         |            |         |           | 26047                 | 26340                    | 26683                  | Tune-up limit (dBm) |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1850.7                | 1880                     | 1914.3                 |                     |                     |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 16.88                 | 16.82                    | 16.77                  | 18.5                |                     |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 16.96                 | 16.89                    | 16.92                  |                     |                     |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 16.90                 | 16.83                    | 16.83                  |                     |                     |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 16.91                 | 16.85                    | 16.74                  | 18.5                |                     |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 16.92                 | 16.89                    | 16.77                  |                     |                     |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 16.90                 | 16.86                    | 16.83                  |                     |                     |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 16.99                 | 16.92                    | 16.86                  | 18.5                |                     |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 17.20                 | 17.13                    | 17.06                  |                     |                     |  |  |  |
| 1.4             | 16QAM      | 1       | 2         | 17.27                 | 17.21                    | 17.24                  |                     |                     |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 17.18                 | 17.13                    | 17.18                  | 18.5                |                     |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 16.98                 | 16.89                    | 16.83                  |                     |                     |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 17.01                 | 16.94                    | 16.88                  |                     |                     |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 16.97                 | 16.89                    | 16.89                  | 18.5                |                     |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 17.07                 | 17.00                    | 16.96                  |                     |                     |  |  |  |
| 1.4             | 64QAM      | 1       | 0         | 17.16                 | 17.09                    | 17.06                  |                     |                     |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 17.20                 | 17.13                    | 17.09                  | 18.5                |                     |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 17.17                 | 17.06                    | 17.05                  |                     |                     |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 17.14                 | 17.04                    | 16.97                  |                     |                     |  |  |  |
| 1.4             | 64QAM      | 3       | 2         | 17.16                 | 17.09                    | 17.02                  | 18.5                |                     |  |  |  |
| 1.4             | 64QAM      | 6       | 0         | 17.01                 | 16.91                    | 16.94                  |                     |                     |  |  |  |

| Band 26_Ant 0   |            |         |           |                       |                          |                        |                     |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 20765                 | 20865                    | 20965                  |                     |  |  |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |  |  |
| 15              | QPSK       | 1       | 0         | 22.19                 | 22.16                    | 22.17                  | 23.5                |  |  |
| 15              | QPSK       | 1       | 37        | 22.12                 | 22.16                    | 22.17                  |                     |  |  |
| 15              | QPSK       | 1       | 74        | 22.12                 | 22.14                    | 22.02                  |                     |  |  |
| 15              | QPSK       | 36      | 0         | 22.15                 | 22.13                    | 22.13                  |                     |  |  |
| 15              | QPSK       | 36      | 20        | 22.25                 | 22.20                    | 22.24                  |                     |  |  |
| 15              | QPSK       | 36      | 39        | 22.17                 | 22.19                    | 22.15                  | 23                  |  |  |
| 15              | QPSK       | 75      | 0         | 22.18                 | 22.10                    | 22.08                  |                     |  |  |
| 15              | 16QAM      | 1       | 0         | 22.54                 | 22.41                    | 22.44                  |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 22.47                 | 22.50                    | 22.32                  |                     |  |  |
| 15              | 16QAM      | 1       | 74        | 22.42                 | 22.45                    | 22.26                  |                     |  |  |
| 15              | 16QAM      | 36      | 0         | 21.11                 | 21.11                    | 21.12                  | 22                  |  |  |
| 15              | 16QAM      | 36      | 20        | 21.25                 | 21.15                    | 21.24                  |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 21.18                 | 21.15                    | 21.12                  |                     |  |  |
| 15              | 16QAM      | 75      | 0         | 21.16                 | 21.14                    | 21.10                  |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 21.38                 | 21.30                    | 21.40                  |                     |  |  |
| 15              | 64QAM      | 1       | 37        | 21.39                 | 21.36                    | 21.40                  | 22                  |  |  |
| 15              | 64QAM      | 1       | 74        | 21.36                 | 21.33                    | 21.19                  |                     |  |  |
| 15              | 64QAM      | 36      | 0         | 20.14                 | 20.18                    | 20.11                  |                     |  |  |
| 15              | 64QAM      | 36      | 20        | 20.26                 | 20.22                    | 20.28                  |                     |  |  |
| 15              | 64QAM      | 36      | 39        | 20.21                 | 20.24                    | 20.18                  |                     |  |  |
| 15              | 64QAM      | 75      | 0         | 20.20                 | 20.12                    | 20.12                  | 21                  |  |  |
| Channel         |            |         |           | 26740                 | 26865                    | 26990                  |                     |  |  |
| Frequency (MHz) |            |         |           | 819                   | 831.5                    | 844                    |                     |  |  |
| 10              | QPSK       | 1       | 0         | 22.04                 | 22.12                    | 22.08                  | 23.5                |  |  |
| 10              | QPSK       | 1       | 25        | 21.95                 | 22.03                    | 22.01                  |                     |  |  |
| 10              | QPSK       | 1       | 49        | 21.94                 | 22.10                    | 21.96                  |                     |  |  |
| 10              | QPSK       | 25      | 0         | 21.96                 | 21.97                    | 21.95                  |                     |  |  |
| 10              | QPSK       | 25      | 12        | 22.10                 | 22.07                    | 22.10                  |                     |  |  |
| 10              | QPSK       | 25      | 25        | 22.01                 | 22.14                    | 22.04                  | 23                  |  |  |
| 10              | QPSK       | 50      | 0         | 21.99                 | 22.04                    | 21.99                  |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 22.42                 | 22.48                    | 22.36                  |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 22.41                 | 22.38                    | 22.34                  |                     |  |  |
| 10              | 16QAM      | 1       | 49        | 22.28                 | 22.33                    | 22.29                  |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 20.92                 | 20.99                    | 20.96                  | 22                  |  |  |
| 10              | 16QAM      | 25      | 12        | 21.10                 | 21.09                    | 21.11                  |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 21.03                 | 21.10                    | 21.07                  |                     |  |  |
| 10              | 16QAM      | 50      | 0         | 21.03                 | 21.02                    | 20.98                  |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 21.35                 | 21.32                    | 21.28                  |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 21.29                 | 21.35                    | 21.31                  | 22                  |  |  |
| 10              | 64QAM      | 1       | 49        | 21.19                 | 21.24                    | 21.09                  |                     |  |  |
| 10              | 64QAM      | 25      | 0         | 20.00                 | 20.00                    | 20.04                  |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 20.14                 | 20.16                    | 20.12                  |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 19.99                 | 20.11                    | 20.10                  |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 20.09                 | 20.03                    | 20.01                  | 21                  |  |  |
| Channel         |            |         |           | 26715                 | 26865                    | 27015                  |                     |  |  |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  |                     |  |  |
| 5               | QPSK       | 1       | 0         | 21.87                 | 21.96                    | 22.00                  | 23.5                |  |  |
| 5               | QPSK       | 1       | 12        | 22.05                 | 22.04                    | 22.06                  |                     |  |  |
| 5               | QPSK       | 1       | 24        | 21.94                 | 22.03                    | 21.94                  |                     |  |  |
| 5               | QPSK       | 12      | 0         | 22.03                 | 22.07                    | 22.05                  |                     |  |  |
| 5               | QPSK       | 12      | 7         | 22.16                 | 22.11                    | 22.13                  |                     |  |  |
| 5               | QPSK       | 12      | 13        | 22.10                 | 22.10                    | 22.10                  | 23                  |  |  |
| 5               | QPSK       | 25      | 0         | 22.09                 | 22.05                    | 22.02                  |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 22.21                 | 22.33                    | 22.27                  |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 22.41                 | 22.25                    | 22.27                  |                     |  |  |
| 5               | 16QAM      | 1       | 24        | 22.25                 | 22.32                    | 22.22                  |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 21.04                 | 21.03                    | 21.06                  | 22                  |  |  |
| 5               | 16QAM      | 12      | 7         | 21.13                 | 21.12                    | 21.16                  |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 21.15                 | 21.10                    | 21.10                  |                     |  |  |
| 5               | 16QAM      | 25      | 0         | 21.12                 | 21.07                    | 21.03                  |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 21.16                 | 21.23                    | 21.21                  |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 21.27                 | 21.32                    | 21.29                  | 22                  |  |  |
| 5               | 64QAM      | 1       | 24        | 21.25                 | 21.28                    | 21.16                  |                     |  |  |
| 5               | 64QAM      | 12      | 0         | 20.12                 | 20.13                    | 20.08                  |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 20.21                 | 20.20                    | 20.20                  |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 20.15                 | 20.19                    | 20.12                  |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 20.13                 | 20.10                    | 20.04                  | 21                  |  |  |
| Channel         |            |         |           | 26705                 | 26865                    | 27025                  |                     |  |  |
| Frequency (MHz) |            |         |           | 815.5                 | 831.5                    | 847.5                  |                     |  |  |
| 3               | QPSK       | 1       | 0         | 21.92                 | 21.99                    | 22.03                  | 23.5                |  |  |
| 3               | QPSK       | 1       | 8         | 22.10                 | 22.12                    | 22.04                  |                     |  |  |
| 3               | QPSK       | 1       | 14        | 21.94                 | 22.08                    | 21.95                  |                     |  |  |
| 3               | QPSK       | 8       | 0         | 22.03                 | 22.06                    | 22.08                  |                     |  |  |
| 3               | QPSK       | 8       | 4         | 22.12                 | 22.14                    | 22.12                  |                     |  |  |
| 3               | QPSK       | 8       | 7         | 22.11                 | 22.11                    | 22.06                  | 23                  |  |  |
| 3               | QPSK       | 15      | 0         | 22.11                 | 22.05                    | 22.08                  |                     |  |  |
| 3               | 16QAM      | 1       | 0         | 22.25                 | 22.25                    | 22.31                  |                     |  |  |
| 3               | 16QAM      | 1       | 8         | 22.31                 | 22.36                    | 22.27                  |                     |  |  |
| 3               | 16QAM      | 1       | 14        | 22.39                 | 22.35                    | 22.21                  |                     |  |  |
| 3               | 16QAM      | 8       | 0         | 21.09                 | 21.08                    | 21.11                  | 22                  |  |  |
| 3               | 16QAM      | 8       | 4         | 21.15                 | 21.17                    | 21.15                  |                     |  |  |
| 3               | 16QAM      | 8       | 7         | 21.17                 | 21.12                    | 21.10                  |                     |  |  |
| 3               | 16QAM      | 15      | 0         | 21.09                 | 21.08                    | 21.06                  |                     |  |  |
| 3               | 64QAM      | 1       | 0         | 21.11                 | 21.15                    | 21.19                  |                     |  |  |
| 3               | 64QAM      | 1       | 8         | 21.30                 | 21.34                    | 21.22                  | 22                  |  |  |
| 3               | 64QAM      | 1       | 14        | 21.21                 | 21.21                    | 21.10                  |                     |  |  |
| 3               | 64QAM      | 8       | 0         | 20.08                 | 20.08                    | 20.14                  |                     |  |  |
| 3               | 64QAM      | 8       | 4         | 20.19                 | 20.20                    | 20.17                  |                     |  |  |
| 3               | 64QAM      | 8       | 7         | 20.15                 | 20.17                    | 20.12                  |                     |  |  |
| 3               | 64QAM      | 15      | 0         | 20.13                 | 20.08                    | 20.07                  | 21                  |  |  |
| Channel         |            |         |           | 26697                 | 26865                    | 27033                  |                     |  |  |
| Frequency (MHz) |            |         |           | 814.7                 | 831.5                    | 848.3                  |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 21.86                 | 21.86                    | 21.89                  | 23.5                |  |  |
| 1.4             | QPSK       | 1       | 3         | 21.99                 | 21.98                    | 21.96                  |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 21.99                 | 21.95                    | 21.87                  |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 21.92                 | 21.94                    | 21.90                  |                     |  |  |
| 1.4             | QPSK       | 3       | 1         | 21.98                 | 21.92                    | 21.94                  |                     |  |  |
| 1.4             | QPSK       | 3       | 3         | 21.94                 | 21.92                    | 21.90                  | 23                  |  |  |
| 1.4             | QPSK       | 6       | 0         | 22.03                 | 21.96                    | 22.01                  |                     |  |  |
| 1.4             | 16QAM      | 1       | 0         | 22.23                 | 22.16                    | 22.12                  |                     |  |  |
| 1.4             | 16QAM      | 1       | 3         | 22.35                 | 22.31                    | 22.27                  |                     |  |  |
| 1.4             | 16QAM      | 1       | 5         | 22.30                 | 22.30                    | 22.12                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 0         | 21.96                 | 21.92                    | 21.92                  | 23                  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 22.02                 | 21.98                    | 21.93                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 21.93                 | 22.05                    | 21.91                  |                     |  |  |
| 1.4             | 16QAM      | 6       | 0         | 21.15                 | 21.06                    | 21.07                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 0         | 21.15                 | 21.11                    | 21.06                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 3         | 21.23                 | 21.15                    | 21.12                  | 22                  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 21.13                 | 21.13                    | 21.08                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 0         | 21.13                 | 21.08                    | 21.09                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 1         | 21.15                 | 21.10                    | 21.06                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 3         | 21.14                 | 21.17                    | 21.06                  |                     |  |  |
| 1.4             | 64QAM      | 6       | 0         | 19.99                 | 19.95                    | 19.99                  | 21                  |  |  |







| Band 7_Ant 0    |            |         |           |                           |                              |                            |                     |
|-----------------|------------|---------|-----------|---------------------------|------------------------------|----------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq. 20850 | Power Middle Ch. Freq. 21100 | Power High Ch. Freq. 21350 | Tune-up limit (dBm) |
| Channel         |            |         |           | 2510                      | 2535                         | 2560                       |                     |
| Frequency (MHz) |            |         |           | 2510                      | 2535                         | 2560                       |                     |
| 20              | QPSK       | 1       | 0         | 17.22                     | 17.21                        | 17.22                      | 18.5                |
| 20              | QPSK       | 1       | 49        | 17.25                     | 17.24                        | 17.27                      |                     |
| 20              | QPSK       | 1       | 99        | 17.31                     | 17.31                        | 17.29                      |                     |
| 20              | QPSK       | 50      | 0         | 17.33                     | 17.42                        | 17.35                      | 18.5                |
| 20              | QPSK       | 50      | 24        | 17.43                     | 17.40                        | 17.40                      |                     |
| 20              | QPSK       | 50      | 50        | 17.44                     | 17.45                        | 17.43                      |                     |
| 20              | QPSK       | 100     | 0         | 17.35                     | 17.27                        | 17.28                      | 18.5                |
| 20              | 16QAM      | 1       | 0         | 17.58                     | 17.54                        | 17.57                      |                     |
| 20              | 16QAM      | 1       | 49        | 17.61                     | 17.57                        | 17.59                      |                     |
| 20              | 16QAM      | 1       | 99        | 17.62                     | 17.66                        | 17.62                      | 18.5                |
| 20              | 16QAM      | 50      | 0         | 17.31                     | 17.35                        | 17.36                      |                     |
| 20              | 16QAM      | 50      | 24        | 17.44                     | 17.39                        | 17.36                      |                     |
| 20              | 16QAM      | 50      | 50        | 17.46                     | 17.46                        | 17.42                      | 18.5                |
| 20              | 16QAM      | 100     | 0         | 17.34                     | 17.26                        | 17.23                      |                     |
| 20              | 64QAM      | 1       | 0         | 17.44                     | 17.38                        | 17.41                      |                     |
| 20              | 64QAM      | 1       | 49        | 17.51                     | 17.49                        | 17.50                      | 18.5                |
| 20              | 64QAM      | 1       | 99        | 17.56                     | 17.57                        | 17.55                      |                     |
| 20              | 64QAM      | 50      | 0         | 17.38                     | 17.40                        | 17.36                      |                     |
| 20              | 64QAM      | 50      | 24        | 17.47                     | 17.45                        | 17.44                      | 18.5                |
| 20              | 64QAM      | 50      | 50        | 17.48                     | 17.48                        | 17.45                      |                     |
| 20              | 64QAM      | 100     | 0         | 17.39                     | 17.36                        | 17.32                      |                     |
| Channel         |            |         |           | 20825                     | 21100                        | 21375                      | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5                    | 2535                         | 2562.5                     |                     |
| 15              | QPSK       | 1       | 0         | 17.27                     | 17.24                        | 17.28                      | 18.5                |
| 15              | QPSK       | 1       | 37        | 17.28                     | 17.28                        | 17.29                      |                     |
| 15              | QPSK       | 1       | 74        | 17.32                     | 17.31                        | 17.36                      |                     |
| 15              | QPSK       | 36      | 0         | 17.33                     | 17.33                        | 17.36                      | 18.5                |
| 15              | QPSK       | 36      | 20        | 17.40                     | 17.39                        | 17.48                      |                     |
| 15              | QPSK       | 36      | 39        | 17.46                     | 17.45                        | 17.46                      |                     |
| 15              | QPSK       | 75      | 0         | 17.37                     | 17.29                        | 17.32                      | 18.5                |
| 15              | 16QAM      | 1       | 0         | 17.57                     | 17.58                        | 17.57                      |                     |
| 15              | 16QAM      | 1       | 37        | 17.58                     | 17.56                        | 17.55                      |                     |
| 15              | 16QAM      | 1       | 74        | 17.65                     | 17.59                        | 17.60                      | 18.5                |
| 15              | 16QAM      | 36      | 0         | 17.34                     | 17.35                        | 17.37                      |                     |
| 15              | 16QAM      | 36      | 20        | 17.40                     | 17.38                        | 17.45                      |                     |
| 15              | 16QAM      | 36      | 39        | 17.46                     | 17.43                        | 17.45                      | 18.5                |
| 15              | 16QAM      | 75      | 0         | 17.36                     | 17.33                        | 17.39                      |                     |
| 15              | 64QAM      | 1       | 0         | 17.48                     | 17.45                        | 17.48                      |                     |
| 15              | 64QAM      | 1       | 37        | 17.52                     | 17.53                        | 17.52                      | 18.5                |
| 15              | 64QAM      | 1       | 74        | 17.55                     | 17.54                        | 17.55                      |                     |
| 15              | 64QAM      | 36      | 0         | 17.40                     | 17.38                        | 17.38                      |                     |
| 15              | 64QAM      | 36      | 20        | 17.48                     | 17.41                        | 17.47                      | 18.5                |
| 15              | 64QAM      | 36      | 39        | 17.52                     | 17.46                        | 17.50                      |                     |
| 15              | 64QAM      | 75      | 0         | 17.39                     | 17.33                        | 17.33                      |                     |
| Channel         |            |         |           | 20800                     | 21100                        | 21400                      | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505                      | 2535                         | 2565                       |                     |
| 10              | QPSK       | 1       | 0         | 17.02                     | 17.08                        | 17.02                      | 18.5                |
| 10              | QPSK       | 1       | 25        | 17.01                     | 17.06                        | 17.07                      |                     |
| 10              | QPSK       | 1       | 49        | 17.07                     | 17.10                        | 17.07                      |                     |
| 10              | QPSK       | 25      | 0         | 17.13                     | 17.11                        | 17.10                      | 18.5                |
| 10              | QPSK       | 25      | 12        | 17.19                     | 17.19                        | 17.21                      |                     |
| 10              | QPSK       | 25      | 25        | 17.22                     | 17.26                        | 17.19                      |                     |
| 10              | QPSK       | 50      | 0         | 17.12                     | 17.10                        | 17.16                      | 18.5                |
| 10              | 16QAM      | 1       | 0         | 17.41                     | 17.43                        | 17.39                      |                     |
| 10              | 16QAM      | 1       | 25        | 17.45                     | 17.51                        | 17.42                      |                     |
| 10              | 16QAM      | 1       | 49        | 17.47                     | 17.54                        | 17.48                      | 18.5                |
| 10              | 16QAM      | 25      | 0         | 17.11                     | 17.14                        | 17.11                      |                     |
| 10              | 16QAM      | 25      | 12        | 17.19                     | 17.17                        | 17.19                      |                     |
| 10              | 16QAM      | 25      | 25        | 17.21                     | 17.22                        | 17.20                      | 18.5                |
| 10              | 16QAM      | 50      | 0         | 17.10                     | 17.04                        | 17.08                      |                     |
| 10              | 64QAM      | 1       | 0         | 17.25                     | 17.31                        | 17.29                      |                     |
| 10              | 64QAM      | 1       | 25        | 17.36                     | 17.39                        | 17.41                      | 18.5                |
| 10              | 64QAM      | 1       | 49        | 17.41                     | 17.41                        | 17.39                      |                     |
| 10              | 64QAM      | 25      | 0         | 17.14                     | 17.13                        | 17.14                      |                     |
| 10              | 64QAM      | 25      | 12        | 17.23                     | 17.19                        | 17.20                      | 18.5                |
| 10              | 64QAM      | 25      | 25        | 17.22                     | 17.24                        | 17.23                      |                     |
| 10              | 64QAM      | 50      | 0         | 17.17                     | 17.09                        | 17.13                      |                     |
| Channel         |            |         |           | 20775                     | 21100                        | 21425                      | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5                    | 2535                         | 2567.5                     |                     |
| 5               | QPSK       | 1       | 0         | 17.00                     | 17.06                        | 17.07                      | 18.5                |
| 5               | QPSK       | 1       | 12        | 17.11                     | 17.13                        | 17.10                      |                     |
| 5               | QPSK       | 1       | 24        | 17.09                     | 17.14                        | 17.12                      |                     |
| 5               | QPSK       | 12      | 0         | 17.15                     | 17.13                        | 17.16                      | 18.5                |
| 5               | QPSK       | 12      | 7         | 17.19                     | 17.18                        | 17.18                      |                     |
| 5               | QPSK       | 12      | 13        | 17.18                     | 17.17                        | 17.13                      |                     |
| 5               | QPSK       | 25      | 0         | 17.18                     | 17.14                        | 17.15                      | 18.5                |
| 5               | 16QAM      | 1       | 0         | 17.36                     | 17.39                        | 17.42                      |                     |
| 5               | 16QAM      | 1       | 12        | 17.42                     | 17.47                        | 17.45                      |                     |
| 5               | 16QAM      | 1       | 24        | 17.43                     | 17.48                        | 17.43                      | 18.5                |
| 5               | 16QAM      | 12      | 0         | 17.18                     | 17.13                        | 17.16                      |                     |
| 5               | 16QAM      | 12      | 7         | 17.23                     | 17.20                        | 17.19                      |                     |
| 5               | 16QAM      | 12      | 13        | 17.19                     | 17.18                        | 17.15                      | 18.5                |
| 5               | 16QAM      | 25      | 0         | 17.15                     | 17.12                        | 17.15                      |                     |
| 5               | 64QAM      | 1       | 0         | 17.27                     | 17.37                        | 17.37                      |                     |
| 5               | 64QAM      | 1       | 12        | 17.37                     | 17.41                        | 17.35                      | 18.5                |
| 5               | 64QAM      | 1       | 24        | 17.30                     | 17.41                        | 17.35                      |                     |
| 5               | 64QAM      | 12      | 0         | 17.21                     | 17.19                        | 17.21                      |                     |
| 5               | 64QAM      | 12      | 7         | 17.27                     | 17.24                        | 17.20                      | 18.5                |
| 5               | 64QAM      | 12      | 13        | 17.22                     | 17.20                        | 17.16                      |                     |
| 5               | 64QAM      | 25      | 0         | 17.17                     | 17.13                        | 17.18                      |                     |



| Band 7_Ant 0    |            |         |           |                        |                           |                         |                        |  |  |  |  |
|-----------------|------------|---------|-----------|------------------------|---------------------------|-------------------------|------------------------|--|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. Freq. | Power Middle<br>Ch. Freq. | Power High<br>Ch. Freq. | Tune-up<br>limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 20550                  | 21100                     | 21350                   |                        |  |  |  |  |
| Frequency (MHz) |            |         |           | 2510                   | 2535                      | 2560                    |                        |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 14.17                  | 14.17                     | 14.18                   | 15.5                   |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 14.18                  | 14.26                     | 14.24                   |                        |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 14.22                  | 14.28                     | 14.27                   |                        |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 14.32                  | 14.35                     | 14.27                   | 15.5                   |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 14.39                  | 14.38                     | 14.35                   |                        |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 14.38                  | 14.41                     | 14.41                   |                        |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 14.30                  | 14.22                     | 14.21                   | 15.5                   |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 14.58                  | 14.56                     | 14.64                   |                        |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 14.63                  | 14.85                     | 14.84                   |                        |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 14.67                  | 14.70                     | 14.68                   | 15.5                   |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 14.34                  | 14.37                     | 14.40                   |                        |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 14.46                  | 14.43                     | 14.42                   |                        |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 14.48                  | 14.50                     | 14.50                   | 15.5                   |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 14.35                  | 14.29                     | 14.29                   |                        |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 14.43                  | 14.45                     | 14.49                   |                        |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 14.52                  | 14.56                     | 14.56                   | 15.5                   |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 14.59                  | 14.55                     | 14.56                   |                        |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 14.39                  | 14.44                     | 14.43                   |                        |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 14.47                  | 14.48                     | 14.47                   | 15.5                   |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 14.51                  | 14.51                     | 14.51                   |                        |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 14.39                  | 14.37                     | 14.36                   |                        |  |  |  |  |
| Channel         |            |         |           | 20825                  | 21100                     | 21375                   | Tune-up<br>limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 2507.5                 | 2535                      | 2562.5                  |                        |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 14.25                  | 14.22                     | 14.19                   | 15.5                   |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 14.23                  | 14.22                     | 14.20                   |                        |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 14.30                  | 14.29                     | 14.28                   |                        |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 14.28                  | 14.33                     | 14.27                   | 15.5                   |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 14.36                  | 14.36                     | 14.31                   |                        |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 14.42                  | 14.43                     | 14.38                   |                        |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 14.33                  | 14.25                     | 14.25                   | 15.5                   |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 14.60                  | 14.60                     | 14.63                   |                        |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 14.63                  | 14.63                     | 14.62                   |                        |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 14.67                  | 14.68                     | 14.68                   | 15.5                   |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 14.38                  | 14.39                     | 14.40                   |                        |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 14.43                  | 14.39                     | 14.49                   |                        |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 14.46                  | 14.48                     | 14.47                   | 15.5                   |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 14.39                  | 14.36                     | 14.34                   |                        |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 14.48                  | 14.48                     | 14.50                   |                        |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 14.52                  | 14.55                     | 14.59                   | 15.5                   |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 14.59                  | 14.55                     | 14.59                   |                        |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 14.41                  | 14.41                     | 14.45                   |                        |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 14.52                  | 14.44                     | 14.54                   | 15.5                   |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 14.53                  | 14.54                     | 14.55                   |                        |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 14.42                  | 14.33                     | 14.39                   |                        |  |  |  |  |
| Channel         |            |         |           | 20800                  | 21100                     | 21400                   | Tune-up<br>limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 2505                   | 2535                      | 2565                    |                        |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 14.01                  | 14.05                     | 14.01                   | 15.5                   |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 14.04                  | 14.15                     | 14.00                   |                        |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 14.10                  | 14.17                     | 14.08                   |                        |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 14.08                  | 14.12                     | 14.08                   | 15.5                   |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 14.19                  | 14.12                     | 14.13                   |                        |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 14.18                  | 14.21                     | 14.20                   |                        |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 14.11                  | 14.06                     | 13.99                   | 15.5                   |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 14.47                  | 14.46                     | 14.48                   |                        |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 14.45                  | 14.54                     | 14.50                   |                        |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 14.51                  | 14.54                     | 14.54                   | 15.5                   |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 14.16                  | 14.17                     | 14.19                   |                        |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 14.25                  | 14.21                     | 14.28                   |                        |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 14.22                  | 14.29                     | 14.27                   | 15.5                   |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 14.16                  | 14.12                     | 14.16                   |                        |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 14.31                  | 14.35                     | 14.34                   |                        |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 14.39                  | 14.45                     | 14.44                   | 15.5                   |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 14.42                  | 14.49                     | 14.45                   |                        |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 14.19                  | 14.21                     | 14.21                   |                        |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 14.26                  | 14.25                     | 14.28                   | 15.5                   |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 14.26                  | 14.32                     | 14.29                   |                        |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 14.21                  | 14.15                     | 14.20                   |                        |  |  |  |  |
| Channel         |            |         |           | 20775                  | 21100                     | 21425                   | Tune-up<br>limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 2502.5                 | 2535                      | 2567.5                  |                        |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 14.00                  | 14.06                     | 14.04                   | 15.5                   |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 14.09                  | 14.14                     | 14.11                   |                        |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 14.11                  | 14.21                     | 14.07                   |                        |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 14.07                  | 14.06                     | 14.09                   | 15.5                   |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 14.20                  | 14.18                     | 14.18                   |                        |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 14.16                  | 14.18                     | 14.13                   |                        |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 14.15                  | 14.08                     | 14.12                   | 15.5                   |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 14.39                  | 14.41                     | 14.49                   |                        |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 14.40                  | 14.43                     | 14.50                   |                        |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 14.52                  | 14.51                     | 14.51                   | 15.5                   |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 14.20                  | 14.18                     | 14.23                   |                        |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 14.25                  | 14.23                     | 14.27                   |                        |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 14.25                  | 14.23                     | 14.21                   | 15.5                   |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 14.18                  | 14.18                     | 14.24                   |                        |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 14.37                  | 14.40                     | 14.47                   |                        |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 14.40                  | 14.46                     | 14.43                   | 15.5                   |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 14.44                  | 14.43                     | 14.48                   |                        |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 14.25                  | 14.26                     | 14.29                   |                        |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 14.31                  | 14.29                     | 14.33                   | 15.5                   |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 14.31                  | 14.31                     | 14.26                   |                        |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 14.21                  | 14.19                     | 14.26                   |                        |  |  |  |  |



| Band 7_Ant 0    |            |         |           |                           |                              |                            |                     |
|-----------------|------------|---------|-----------|---------------------------|------------------------------|----------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq. 20850 | Power Middle Ch. Freq. 21100 | Power High Ch. Freq. 21350 | Tune-up limit (dBm) |
| Channel         |            |         |           | 2510                      | 2535                         | 2560                       |                     |
| Frequency (MHz) |            |         |           | 2510                      | 2535                         | 2560                       |                     |
| 20              | QPSK       | 1       | 0         | 14.17                     | 14.17                        | 14.18                      | 16                  |
| 20              | QPSK       | 1       | 49        | 14.18                     | 14.26                        | 14.24                      |                     |
| 20              | QPSK       | 1       | 99        | 14.22                     | 14.28                        | 14.27                      |                     |
| 20              | QPSK       | 50      | 0         | 14.32                     | 14.35                        | 14.27                      | 16                  |
| 20              | QPSK       | 50      | 24        | 14.39                     | 14.38                        | 14.35                      |                     |
| 20              | QPSK       | 50      | 50        | 14.38                     | 14.41                        | 14.41                      |                     |
| 20              | QPSK       | 100     | 0         | 14.30                     | 14.22                        | 14.21                      | 16                  |
| 20              | 16QAM      | 1       | 0         | 14.58                     | 14.56                        | 14.64                      |                     |
| 20              | 16QAM      | 1       | 49        | 14.63                     | 14.65                        | 14.64                      |                     |
| 20              | 16QAM      | 1       | 99        | 14.67                     | 14.70                        | 14.68                      | 16                  |
| 20              | 16QAM      | 50      | 0         | 14.34                     | 14.37                        | 14.40                      |                     |
| 20              | 16QAM      | 50      | 24        | 14.46                     | 14.43                        | 14.42                      |                     |
| 20              | 16QAM      | 50      | 50        | 14.48                     | 14.50                        | 14.50                      | 16                  |
| 20              | 16QAM      | 100     | 0         | 14.36                     | 14.29                        | 14.29                      |                     |
| 20              | 64QAM      | 1       | 0         | 14.43                     | 14.45                        | 14.49                      |                     |
| 20              | 64QAM      | 1       | 49        | 14.52                     | 14.56                        | 14.56                      | 16                  |
| 20              | 64QAM      | 1       | 99        | 14.59                     | 14.55                        | 14.56                      |                     |
| 20              | 64QAM      | 50      | 0         | 14.39                     | 14.44                        | 14.43                      |                     |
| 20              | 64QAM      | 50      | 24        | 14.47                     | 14.48                        | 14.47                      | 16                  |
| 20              | 64QAM      | 50      | 50        | 14.51                     | 14.51                        | 14.51                      |                     |
| 20              | 64QAM      | 100     | 0         | 14.39                     | 14.37                        | 14.36                      |                     |
| Channel         |            |         |           | 20825                     | 21100                        | 21375                      | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5                    | 2535                         | 2562.5                     |                     |
| 15              | QPSK       | 1       | 0         | 14.25                     | 14.22                        | 14.19                      | 16                  |
| 15              | QPSK       | 1       | 37        | 14.23                     | 14.22                        | 14.20                      |                     |
| 15              | QPSK       | 1       | 74        | 14.30                     | 14.29                        | 14.28                      |                     |
| 15              | QPSK       | 36      | 0         | 14.28                     | 14.33                        | 14.27                      | 16                  |
| 15              | QPSK       | 36      | 20        | 14.36                     | 14.36                        | 14.31                      |                     |
| 15              | QPSK       | 36      | 39        | 14.42                     | 14.43                        | 14.38                      |                     |
| 15              | QPSK       | 75      | 0         | 14.33                     | 14.25                        | 14.25                      | 16                  |
| 15              | 16QAM      | 1       | 0         | 14.60                     | 14.60                        | 14.63                      |                     |
| 15              | 16QAM      | 1       | 37        | 14.63                     | 14.63                        | 14.62                      |                     |
| 15              | 16QAM      | 1       | 74        | 14.67                     | 14.68                        | 14.68                      | 16                  |
| 15              | 16QAM      | 36      | 0         | 14.38                     | 14.39                        | 14.40                      |                     |
| 15              | 16QAM      | 36      | 20        | 14.43                     | 14.39                        | 14.49                      |                     |
| 15              | 16QAM      | 36      | 39        | 14.46                     | 14.48                        | 14.47                      | 16                  |
| 15              | 16QAM      | 75      | 0         | 14.36                     | 14.36                        | 14.34                      |                     |
| 15              | 64QAM      | 1       | 0         | 14.48                     | 14.48                        | 14.50                      |                     |
| 15              | 64QAM      | 1       | 37        | 14.52                     | 14.55                        | 14.59                      | 16                  |
| 15              | 64QAM      | 1       | 74        | 14.59                     | 14.55                        | 14.59                      |                     |
| 15              | 64QAM      | 36      | 0         | 14.41                     | 14.41                        | 14.45                      |                     |
| 15              | 64QAM      | 36      | 20        | 14.52                     | 14.44                        | 14.54                      | 16                  |
| 15              | 64QAM      | 36      | 39        | 14.53                     | 14.54                        | 14.55                      |                     |
| 15              | 64QAM      | 75      | 0         | 14.42                     | 14.33                        | 14.39                      |                     |
| Channel         |            |         |           | 20800                     | 21100                        | 21400                      | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505                      | 2535                         | 2565                       |                     |
| 10              | QPSK       | 1       | 0         | 14.01                     | 14.05                        | 14.01                      | 16                  |
| 10              | QPSK       | 1       | 25        | 14.04                     | 14.15                        | 14.00                      |                     |
| 10              | QPSK       | 1       | 49        | 14.10                     | 14.17                        | 14.08                      |                     |
| 10              | QPSK       | 25      | 0         | 14.08                     | 14.12                        | 14.08                      | 16                  |
| 10              | QPSK       | 25      | 12        | 14.19                     | 14.12                        | 14.13                      |                     |
| 10              | QPSK       | 25      | 25        | 14.18                     | 14.21                        | 14.20                      |                     |
| 10              | QPSK       | 50      | 0         | 14.11                     | 14.06                        | 13.99                      | 16                  |
| 10              | 16QAM      | 1       | 0         | 14.47                     | 14.46                        | 14.48                      |                     |
| 10              | 16QAM      | 1       | 25        | 14.45                     | 14.54                        | 14.50                      |                     |
| 10              | 16QAM      | 1       | 49        | 14.51                     | 14.54                        | 14.54                      | 16                  |
| 10              | 16QAM      | 25      | 0         | 14.16                     | 14.17                        | 14.19                      |                     |
| 10              | 16QAM      | 25      | 12        | 14.25                     | 14.21                        | 14.28                      |                     |
| 10              | 16QAM      | 25      | 25        | 14.22                     | 14.29                        | 14.27                      | 16                  |
| 10              | 16QAM      | 50      | 0         | 14.16                     | 14.12                        | 14.16                      |                     |
| 10              | 64QAM      | 1       | 0         | 14.31                     | 14.35                        | 14.34                      |                     |
| 10              | 64QAM      | 1       | 25        | 14.39                     | 14.45                        | 14.44                      | 16                  |
| 10              | 64QAM      | 1       | 49        | 14.42                     | 14.49                        | 14.45                      |                     |
| 10              | 64QAM      | 25      | 0         | 14.19                     | 14.21                        | 14.21                      |                     |
| 10              | 64QAM      | 25      | 12        | 14.26                     | 14.25                        | 14.28                      | 16                  |
| 10              | 64QAM      | 25      | 25        | 14.26                     | 14.32                        | 14.29                      |                     |
| 10              | 64QAM      | 50      | 0         | 14.21                     | 14.15                        | 14.20                      |                     |
| Channel         |            |         |           | 20775                     | 21100                        | 21425                      | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5                    | 2535                         | 2567.5                     |                     |
| 5               | QPSK       | 1       | 0         | 14.00                     | 14.06                        | 14.04                      | 16                  |
| 5               | QPSK       | 1       | 12        | 14.09                     | 14.14                        | 14.11                      |                     |
| 5               | QPSK       | 1       | 24        | 14.11                     | 14.21                        | 14.07                      |                     |
| 5               | QPSK       | 12      | 0         | 14.07                     | 14.06                        | 14.09                      | 16                  |
| 5               | QPSK       | 12      | 7         | 14.20                     | 14.18                        | 14.18                      |                     |
| 5               | QPSK       | 12      | 13        | 14.16                     | 14.18                        | 14.13                      |                     |
| 5               | QPSK       | 25      | 0         | 14.15                     | 14.08                        | 14.12                      | 16                  |
| 5               | 16QAM      | 1       | 0         | 14.39                     | 14.41                        | 14.49                      |                     |
| 5               | 16QAM      | 1       | 12        | 14.40                     | 14.43                        | 14.50                      |                     |
| 5               | 16QAM      | 1       | 24        | 14.52                     | 14.51                        | 14.51                      | 16                  |
| 5               | 16QAM      | 12      | 0         | 14.20                     | 14.18                        | 14.23                      |                     |
| 5               | 16QAM      | 12      | 7         | 14.25                     | 14.23                        | 14.27                      |                     |
| 5               | 16QAM      | 12      | 13        | 14.25                     | 14.23                        | 14.21                      | 16                  |
| 5               | 16QAM      | 25      | 0         | 14.18                     | 14.16                        | 14.24                      |                     |
| 5               | 64QAM      | 1       | 0         | 14.37                     | 14.40                        | 14.47                      |                     |
| 5               | 64QAM      | 1       | 12        | 14.40                     | 14.46                        | 14.43                      | 16                  |
| 5               | 64QAM      | 1       | 24        | 14.44                     | 14.43                        | 14.48                      |                     |
| 5               | 64QAM      | 12      | 0         | 14.25                     | 14.26                        | 14.29                      |                     |
| 5               | 64QAM      | 12      | 7         | 14.31                     | 14.29                        | 14.33                      | 16                  |
| 5               | 64QAM      | 12      | 13        | 14.31                     | 14.31                        | 14.26                      |                     |
| 5               | 64QAM      | 25      | 0         | 14.21                     | 14.19                        | 14.26                      |                     |



| Band 7_Ant 0    |            |         |           |                                 |                                    |                                  |                           |
|-----------------|------------|---------|-----------|---------------------------------|------------------------------------|----------------------------------|---------------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. Freq.<br>20550 | Power Middle<br>Ch. Freq.<br>21100 | Power High<br>Ch. Freq.<br>21350 | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 2510                            | 2535                               | 2560                             |                           |
| Frequency (MHz) |            |         |           | 2510                            | 2535                               | 2560                             |                           |
| 20              | QPSK       | 1       | 0         | 18.72                           | 18.71                              | 18.71                            | 20                        |
| 20              | QPSK       | 1       | 49        | 18.76                           | 18.73                              | 18.72                            |                           |
| 20              | QPSK       | 1       | 99        | 18.80                           | 18.80                              | 18.77                            | 20                        |
| 20              | QPSK       | 50      | 0         | 18.82                           | 18.83                              | 18.81                            |                           |
| 20              | QPSK       | 50      | 24        | 18.90                           | 18.86                              | 18.85                            | 20                        |
| 20              | QPSK       | 50      | 50        | 18.90                           | 18.91                              | 18.90                            |                           |
| 20              | QPSK       | 100     | 0         | 18.87                           | 18.76                              | 18.74                            | 20                        |
| 20              | 16QAM      | 1       | 0         | 19.03                           | 19.02                              | 19.08                            |                           |
| 20              | 16QAM      | 1       | 49        | 19.08                           | 19.08                              | 19.05                            | 20                        |
| 20              | 16QAM      | 1       | 99        | 19.12                           | 19.14                              | 19.10                            |                           |
| 20              | 16QAM      | 50      | 0         | 18.81                           | 18.81                              | 18.80                            | 20                        |
| 20              | 16QAM      | 50      | 24        | 18.93                           | 18.84                              | 18.85                            |                           |
| 20              | 16QAM      | 50      | 50        | 18.88                           | 18.91                              | 18.91                            | 20                        |
| 20              | 16QAM      | 100     | 0         | 18.84                           | 18.76                              | 18.76                            |                           |
| 20              | 64QAM      | 1       | 0         | 19.03                           | 18.90                              | 18.95                            | 20                        |
| 20              | 64QAM      | 1       | 49        | 18.96                           | 19.03                              | 18.99                            |                           |
| 20              | 64QAM      | 1       | 99        | 19.07                           | 19.02                              | 19.02                            | 20                        |
| 20              | 64QAM      | 50      | 0         | 18.84                           | 18.84                              | 18.84                            |                           |
| 20              | 64QAM      | 50      | 24        | 18.93                           | 18.87                              | 18.87                            | 20                        |
| 20              | 64QAM      | 50      | 50        | 18.92                           | 18.92                              | 18.93                            |                           |
| 20              | 64QAM      | 100     | 0         | 18.86                           | 18.82                              | 18.78                            |                           |
| Channel         |            |         |           | 20825                           | 21100                              | 21375                            |                           |
| Frequency (MHz) |            |         |           | 20825                           | 21100                              | 21375                            |                           |
| 15              | QPSK       | 1       | 0         | 18.76                           | 18.73                              | 18.82                            |                           |
| 15              | QPSK       | 1       | 37        | 18.79                           | 18.77                              | 18.82                            | 20                        |
| 15              | QPSK       | 1       | 74        | 18.81                           | 18.82                              | 18.82                            |                           |
| 15              | QPSK       | 36      | 0         | 18.78                           | 18.78                              | 18.86                            | 20                        |
| 15              | QPSK       | 36      | 20        | 18.89                           | 18.83                              | 18.92                            |                           |
| 15              | QPSK       | 36      | 39        | 18.93                           | 18.91                              | 18.97                            | 20                        |
| 15              | QPSK       | 75      | 0         | 18.85                           | 18.78                              | 18.79                            |                           |
| 15              | 16QAM      | 1       | 0         | 19.10                           | 19.06                              | 19.08                            | 20                        |
| 15              | 16QAM      | 1       | 37        | 19.08                           | 19.07                              | 19.10                            |                           |
| 15              | 16QAM      | 1       | 74        | 19.12                           | 19.08                              | 19.12                            | 20                        |
| 15              | 16QAM      | 36      | 0         | 18.82                           | 18.80                              | 18.82                            |                           |
| 15              | 16QAM      | 36      | 20        | 18.91                           | 18.84                              | 18.92                            | 20                        |
| 15              | 16QAM      | 36      | 39        | 18.91                           | 18.91                              | 18.88                            |                           |
| 15              | 16QAM      | 75      | 0         | 18.88                           | 18.80                              | 18.85                            | 20                        |
| 15              | 64QAM      | 1       | 0         | 18.96                           | 18.91                              | 18.95                            |                           |
| 15              | 64QAM      | 1       | 37        | 18.98                           | 19.02                              | 19.03                            | 20                        |
| 15              | 64QAM      | 1       | 74        | 19.02                           | 19.03                              | 19.02                            |                           |
| 15              | 64QAM      | 36      | 0         | 18.83                           | 18.82                              | 18.84                            | 20                        |
| 15              | 64QAM      | 36      | 20        | 18.94                           | 18.83                              | 18.98                            |                           |
| 15              | 64QAM      | 36      | 39        | 18.95                           | 18.94                              | 18.95                            | 20                        |
| 15              | 64QAM      | 75      | 0         | 18.88                           | 18.81                              | 18.83                            |                           |
| Channel         |            |         |           | 20800                           | 21100                              | 21400                            |                           |
| Frequency (MHz) |            |         |           | 2505                            | 2535                               | 2565                             |                           |
| 10              | QPSK       | 1       | 0         | 18.50                           | 18.58                              | 18.57                            | 20                        |
| 10              | QPSK       | 1       | 25        | 18.50                           | 18.59                              | 18.57                            |                           |
| 10              | QPSK       | 1       | 49        | 18.57                           | 18.63                              | 18.58                            | 20                        |
| 10              | QPSK       | 25      | 0         | 18.57                           | 18.62                              | 18.60                            |                           |
| 10              | QPSK       | 25      | 12        | 18.66                           | 18.65                              | 18.71                            | 20                        |
| 10              | QPSK       | 25      | 25        | 18.64                           | 18.75                              | 18.71                            |                           |
| 10              | QPSK       | 50      | 0         | 18.61                           | 18.61                              | 18.66                            | 20                        |
| 10              | 16QAM      | 1       | 0         | 18.67                           | 18.64                              | 18.60                            |                           |
| 10              | 16QAM      | 1       | 25        | 18.91                           | 18.96                              | 18.92                            | 20                        |
| 10              | 16QAM      | 1       | 49        | 18.95                           | 18.98                              | 18.99                            |                           |
| 10              | 16QAM      | 25      | 0         | 18.55                           | 18.58                              | 18.57                            | 20                        |
| 10              | 16QAM      | 25      | 12        | 18.68                           | 18.63                              | 18.70                            |                           |
| 10              | 16QAM      | 25      | 25        | 18.66                           | 18.70                              | 18.67                            | 20                        |
| 10              | 16QAM      | 50      | 0         | 18.59                           | 18.56                              | 18.60                            |                           |
| 10              | 64QAM      | 1       | 0         | 18.75                           | 18.79                              | 18.75                            | 20                        |
| 10              | 64QAM      | 1       | 25        | 18.83                           | 18.86                              | 18.86                            |                           |
| 10              | 64QAM      | 1       | 49        | 18.84                           | 18.93                              | 18.86                            | 20                        |
| 10              | 64QAM      | 25      | 0         | 18.62                           | 18.60                              | 18.62                            |                           |
| 10              | 64QAM      | 25      | 12        | 18.71                           | 18.66                              | 18.73                            | 20                        |
| 10              | 64QAM      | 25      | 25        | 18.70                           | 18.72                              | 18.72                            |                           |
| 10              | 64QAM      | 50      | 0         | 18.64                           | 18.59                              | 18.63                            |                           |
| Channel         |            |         |           | 20775                           | 21100                              | 21425                            |                           |
| Frequency (MHz) |            |         |           | 2502.5                          | 2535                               | 2567.5                           |                           |
| 5               | QPSK       | 1       | 0         | 18.48                           | 18.57                              | 18.59                            |                           |
| 5               | QPSK       | 1       | 12        | 18.59                           | 18.67                              | 18.67                            | 20                        |
| 5               | QPSK       | 1       | 24        | 18.59                           | 18.66                              | 18.61                            |                           |
| 5               | QPSK       | 12      | 0         | 18.65                           | 18.64                              | 18.69                            | 20                        |
| 5               | QPSK       | 12      | 7         | 18.72                           | 18.68                              | 18.74                            |                           |
| 5               | QPSK       | 12      | 13        | 18.66                           | 18.73                              | 18.67                            | 20                        |
| 5               | QPSK       | 25      | 0         | 18.62                           | 18.65                              | 18.67                            |                           |
| 5               | 16QAM      | 1       | 0         | 18.86                           | 18.90                              | 18.92                            | 20                        |
| 5               | 16QAM      | 1       | 12        | 18.97                           | 18.97                              | 18.96                            |                           |
| 5               | 16QAM      | 1       | 24        | 18.93                           | 18.98                              | 18.91                            | 20                        |
| 5               | 16QAM      | 12      | 0         | 18.65                           | 18.66                              | 18.66                            |                           |
| 5               | 16QAM      | 12      | 7         | 18.73                           | 18.73                              | 18.72                            | 20                        |
| 5               | 16QAM      | 12      | 13        | 18.68                           | 18.72                              | 18.67                            |                           |
| 5               | 16QAM      | 25      | 0         | 18.66                           | 18.62                              | 18.68                            | 20                        |
| 5               | 64QAM      | 1       | 0         | 18.78                           | 18.89                              | 18.89                            |                           |
| 5               | 64QAM      | 1       | 12        | 18.79                           | 18.91                              | 18.87                            | 20                        |
| 5               | 64QAM      | 1       | 24        | 18.79                           | 18.93                              | 18.90                            |                           |
| 5               | 64QAM      | 12      | 0         | 18.70                           | 18.69                              | 18.72                            | 20                        |
| 5               | 64QAM      | 12      | 7         | 18.77                           | 18.74                              | 18.78                            |                           |
| 5               | 64QAM      | 12      | 13        | 18.70                           | 18.73                              | 18.71                            | 20                        |
| 5               | 64QAM      | 25      | 0         | 18.67                           | 18.65                              | 18.66                            |                           |



| Band 7_Ant 0    |            |         |           |                           |                              |                            |                     |  |  |  |  |
|-----------------|------------|---------|-----------|---------------------------|------------------------------|----------------------------|---------------------|--|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq. 20550 | Power Middle Ch. Freq. 21100 | Power High Ch. Freq. 21350 | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 2510                      | 2535                         | 2560                       |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 2510                      | 2535                         | 2560                       |                     |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 17.25                     | 17.25                        | 17.25                      | 18.5                |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 17.25                     | 17.30                        | 17.31                      |                     |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 17.37                     | 17.33                        | 17.36                      |                     |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 17.39                     | 17.42                        | 17.40                      | 18.5                |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 17.46                     | 17.46                        | 17.48                      |                     |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 17.52                     | 17.50                        | 17.49                      |                     |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 17.39                     | 17.34                        | 17.29                      | 18.5                |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 17.61                     | 17.60                        | 17.64                      |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 17.65                     | 17.62                        | 17.64                      |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 17.69                     | 17.67                        | 17.67                      | 18.5                |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 17.36                     | 17.40                        | 17.39                      |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 17.46                     | 17.42                        | 17.42                      |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 17.49                     | 17.49                        | 17.49                      | 18.5                |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 17.36                     | 17.33                        | 17.31                      |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 17.45                     | 17.44                        | 17.45                      |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 17.54                     | 17.50                        | 17.58                      | 18.5                |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 17.56                     | 17.60                        | 17.60                      |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 17.40                     | 17.45                        | 17.44                      |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 17.49                     | 17.46                        | 17.46                      | 18.5                |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 17.51                     | 17.52                        | 17.50                      |                     |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 17.42                     | 17.37                        | 17.33                      |                     |  |  |  |  |
| Channel         |            |         |           | 20825                     | 21100                        | 21375                      | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 2507.5                    | 2535                         | 2562.5                     |                     |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 17.30                     | 17.29                        | 17.34                      | 18.5                |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 17.30                     | 17.32                        | 17.31                      |                     |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 17.36                     | 17.38                        | 17.40                      |                     |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 17.37                     | 17.38                        | 17.42                      | 18.5                |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 17.49                     | 17.43                        | 17.48                      |                     |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 17.50                     | 17.48                        | 17.53                      |                     |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 17.39                     | 17.32                        | 17.37                      | 18.5                |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 17.63                     | 17.61                        | 17.61                      |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 17.62                     | 17.63                        | 17.62                      |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 17.65                     | 17.67                        | 17.64                      | 18.5                |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 17.42                     | 17.40                        | 17.43                      |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 17.48                     | 17.41                        | 17.49                      |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 17.47                     | 17.47                        | 17.50                      | 18.5                |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 17.41                     | 17.32                        | 17.39                      |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 17.48                     | 17.46                        | 17.48                      |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 17.55                     | 17.55                        | 17.58                      | 18.5                |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 17.57                     | 17.58                        | 17.59                      |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 17.43                     | 17.42                        | 17.43                      |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 17.53                     | 17.46                        | 17.52                      | 18.5                |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 17.53                     | 17.55                        | 17.54                      |                     |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 17.43                     | 17.37                        | 17.37                      |                     |  |  |  |  |
| Channel         |            |         |           | 20800                     | 21100                        | 21400                      | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 2505                      | 2535                         | 2565                       |                     |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 17.10                     | 17.11                        | 17.11                      | 18.5                |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 17.07                     | 17.16                        | 17.10                      |                     |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 17.12                     | 17.17                        | 17.12                      |                     |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 17.15                     | 17.18                        | 17.14                      | 18.5                |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 17.23                     | 17.23                        | 17.23                      |                     |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 17.21                     | 17.24                        | 17.27                      |                     |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 17.17                     | 17.13                        | 17.19                      | 18.5                |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 17.47                     | 17.48                        | 17.44                      |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 17.47                     | 17.47                        | 17.50                      |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 17.50                     | 17.58                        | 17.52                      | 18.5                |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 17.16                     | 17.18                        | 17.17                      |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 17.22                     | 17.20                        | 17.22                      |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 17.22                     | 17.27                        | 17.27                      | 18.5                |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 17.14                     | 17.08                        | 17.13                      |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 17.28                     | 17.29                        | 17.29                      |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 17.43                     | 17.42                        | 17.45                      | 18.5                |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 17.40                     | 17.46                        | 17.44                      |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 17.17                     | 17.20                        | 17.18                      |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 17.27                     | 17.23                        | 17.29                      | 18.5                |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 17.26                     | 17.29                        | 17.29                      |                     |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 17.20                     | 17.12                        | 17.17                      |                     |  |  |  |  |
| Channel         |            |         |           | 20775                     | 21100                        | 21425                      | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 2502.5                    | 2535                         | 2567.5                     |                     |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 17.04                     | 17.10                        | 17.16                      | 18.5                |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 17.15                     | 17.19                        | 17.20                      |                     |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 17.15                     | 17.19                        | 17.16                      |                     |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 17.20                     | 17.19                        | 17.23                      | 18.5                |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 17.25                     | 17.23                        | 17.24                      |                     |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 17.21                     | 17.24                        | 17.20                      |                     |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 17.21                     | 17.18                        | 17.22                      | 18.5                |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 17.39                     | 17.44                        | 17.47                      |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 17.50                     | 17.56                        | 17.52                      |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 17.50                     | 17.53                        | 17.49                      | 18.5                |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 17.22                     | 17.22                        | 17.24                      |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 17.28                     | 17.24                        | 17.26                      |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 17.21                     | 17.24                        | 17.21                      | 18.5                |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 17.21                     | 17.16                        | 17.22                      |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 17.35                     | 17.41                        | 17.46                      |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 17.43                     | 17.46                        | 17.43                      | 18.5                |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 17.34                     | 17.48                        | 17.47                      |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 17.26                     | 17.23                        | 17.27                      |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 17.31                     | 17.30                        | 17.28                      | 18.5                |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 17.25                     | 17.26                        | 17.23                      |                     |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 17.21                     | 17.18                        | 17.23                      |                     |  |  |  |  |



| Band 7_Ant 0    |            |         |           |                           |                              |                            |                     |
|-----------------|------------|---------|-----------|---------------------------|------------------------------|----------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq. 20550 | Power Middle Ch. Freq. 21100 | Power High Ch. Freq. 21350 | Tune-up limit (dBm) |
| Channel         |            |         |           | 2510                      | 2535                         | 2560                       |                     |
| Frequency (MHz) |            |         |           | 2510                      | 2535                         | 2560                       |                     |
| 20              | QPSK       | 1       | 0         | 17.25                     | 17.25                        | 17.25                      | 19                  |
| 20              | QPSK       | 1       | 49        | 17.25                     | 17.30                        | 17.31                      |                     |
| 20              | QPSK       | 1       | 99        | 17.37                     | 17.33                        | 17.36                      | 19                  |
| 20              | QPSK       | 50      | 0         | 17.39                     | 17.42                        | 17.40                      |                     |
| 20              | QPSK       | 50      | 24        | 17.46                     | 17.46                        | 17.48                      | 19                  |
| 20              | QPSK       | 50      | 50        | 17.45                     | 17.50                        | 17.52                      |                     |
| 20              | QPSK       | 100     | 0         | 17.39                     | 17.34                        | 17.29                      | 19                  |
| 20              | 16QAM      | 1       | 0         | 17.61                     | 17.60                        | 17.64                      |                     |
| 20              | 16QAM      | 1       | 49        | 17.65                     | 17.62                        | 17.64                      | 19                  |
| 20              | 16QAM      | 1       | 99        | 17.69                     | 17.67                        | 17.67                      |                     |
| 20              | 16QAM      | 50      | 0         | 17.36                     | 17.40                        | 17.39                      | 19                  |
| 20              | 16QAM      | 50      | 24        | 17.46                     | 17.42                        | 17.42                      |                     |
| 20              | 16QAM      | 50      | 50        | 17.49                     | 17.49                        | 17.49                      | 19                  |
| 20              | 16QAM      | 100     | 0         | 17.36                     | 17.33                        | 17.31                      |                     |
| 20              | 64QAM      | 1       | 0         | 17.45                     | 17.44                        | 17.45                      | 19                  |
| 20              | 64QAM      | 1       | 49        | 17.54                     | 17.50                        | 17.58                      |                     |
| 20              | 64QAM      | 1       | 99        | 17.56                     | 17.60                        | 17.60                      | 19                  |
| 20              | 64QAM      | 50      | 0         | 17.40                     | 17.45                        | 17.44                      |                     |
| 20              | 64QAM      | 50      | 24        | 17.49                     | 17.46                        | 17.46                      | 19                  |
| 20              | 64QAM      | 50      | 50        | 17.51                     | 17.52                        | 17.50                      |                     |
| 20              | 64QAM      | 100     | 0         | 17.42                     | 17.37                        | 17.33                      |                     |
| Channel         |            |         |           | 20825                     | 21100                        | 21375                      |                     |
| Frequency (MHz) |            |         |           | 2507.5                    | 2535                         | 2562.5                     |                     |
| 15              | QPSK       | 1       | 0         | 17.30                     | 17.29                        | 17.34                      | 19                  |
| 15              | QPSK       | 1       | 37        | 17.30                     | 17.32                        | 17.31                      |                     |
| 15              | QPSK       | 1       | 74        | 17.36                     | 17.38                        | 17.40                      | 19                  |
| 15              | QPSK       | 36      | 0         | 17.37                     | 17.38                        | 17.42                      |                     |
| 15              | QPSK       | 36      | 20        | 17.49                     | 17.43                        | 17.48                      | 19                  |
| 15              | QPSK       | 36      | 39        | 17.50                     | 17.48                        | 17.53                      |                     |
| 15              | QPSK       | 75      | 0         | 17.39                     | 17.32                        | 17.37                      | 19                  |
| 15              | 16QAM      | 1       | 0         | 17.63                     | 17.61                        | 17.61                      |                     |
| 15              | 16QAM      | 1       | 37        | 17.62                     | 17.63                        | 17.62                      | 19                  |
| 15              | 16QAM      | 1       | 74        | 17.65                     | 17.67                        | 17.64                      |                     |
| 15              | 16QAM      | 36      | 0         | 17.42                     | 17.40                        | 17.43                      | 19                  |
| 15              | 16QAM      | 36      | 20        | 17.48                     | 17.41                        | 17.49                      |                     |
| 15              | 16QAM      | 36      | 39        | 17.47                     | 17.47                        | 17.50                      | 19                  |
| 15              | 16QAM      | 75      | 0         | 17.41                     | 17.32                        | 17.39                      |                     |
| 15              | 64QAM      | 1       | 0         | 17.48                     | 17.46                        | 17.48                      | 19                  |
| 15              | 64QAM      | 1       | 37        | 17.55                     | 17.55                        | 17.58                      |                     |
| 15              | 64QAM      | 1       | 74        | 17.57                     | 17.58                        | 17.59                      | 19                  |
| 15              | 64QAM      | 36      | 0         | 17.43                     | 17.42                        | 17.43                      |                     |
| 15              | 64QAM      | 36      | 20        | 17.53                     | 17.46                        | 17.52                      | 19                  |
| 15              | 64QAM      | 36      | 39        | 17.53                     | 17.55                        | 17.54                      |                     |
| 15              | 64QAM      | 75      | 0         | 17.43                     | 17.37                        | 17.37                      |                     |
| Channel         |            |         |           | 20800                     | 21100                        | 21400                      |                     |
| Frequency (MHz) |            |         |           | 2505                      | 2535                         | 2565                       |                     |
| 10              | QPSK       | 1       | 0         | 17.10                     | 17.11                        | 17.11                      | 19                  |
| 10              | QPSK       | 1       | 25        | 17.07                     | 17.16                        | 17.10                      |                     |
| 10              | QPSK       | 1       | 49        | 17.12                     | 17.17                        | 17.12                      | 19                  |
| 10              | QPSK       | 25      | 0         | 17.15                     | 17.18                        | 17.14                      |                     |
| 10              | QPSK       | 25      | 12        | 17.23                     | 17.23                        | 17.23                      | 19                  |
| 10              | QPSK       | 25      | 25        | 17.21                     | 17.24                        | 17.27                      |                     |
| 10              | QPSK       | 50      | 0         | 17.17                     | 17.13                        | 17.19                      | 19                  |
| 10              | 16QAM      | 1       | 0         | 17.47                     | 17.48                        | 17.44                      |                     |
| 10              | 16QAM      | 1       | 25        | 17.47                     | 17.47                        | 17.50                      | 19                  |
| 10              | 16QAM      | 1       | 49        | 17.50                     | 17.58                        | 17.52                      |                     |
| 10              | 16QAM      | 25      | 0         | 17.16                     | 17.18                        | 17.17                      | 19                  |
| 10              | 16QAM      | 25      | 12        | 17.22                     | 17.20                        | 17.22                      |                     |
| 10              | 16QAM      | 25      | 25        | 17.22                     | 17.27                        | 17.27                      | 19                  |
| 10              | 16QAM      | 50      | 0         | 17.14                     | 17.08                        | 17.13                      |                     |
| 10              | 64QAM      | 1       | 0         | 17.28                     | 17.29                        | 17.29                      | 19                  |
| 10              | 64QAM      | 1       | 25        | 17.43                     | 17.42                        | 17.45                      |                     |
| 10              | 64QAM      | 1       | 49        | 17.40                     | 17.46                        | 17.44                      | 19                  |
| 10              | 64QAM      | 25      | 0         | 17.17                     | 17.20                        | 17.18                      |                     |
| 10              | 64QAM      | 25      | 12        | 17.27                     | 17.23                        | 17.29                      | 19                  |
| 10              | 64QAM      | 25      | 25        | 17.26                     | 17.29                        | 17.29                      |                     |
| 10              | 64QAM      | 50      | 0         | 17.20                     | 17.12                        | 17.17                      |                     |
| Channel         |            |         |           | 20775                     | 21100                        | 21425                      |                     |
| Frequency (MHz) |            |         |           | 2502.5                    | 2535                         | 2567.5                     |                     |
| 5               | QPSK       | 1       | 0         | 17.04                     | 17.10                        | 17.16                      | 19                  |
| 5               | QPSK       | 1       | 12        | 17.15                     | 17.19                        | 17.20                      |                     |
| 5               | QPSK       | 1       | 24        | 17.15                     | 17.19                        | 17.16                      | 19                  |
| 5               | QPSK       | 12      | 0         | 17.20                     | 17.19                        | 17.23                      |                     |
| 5               | QPSK       | 12      | 7         | 17.25                     | 17.23                        | 17.24                      | 19                  |
| 5               | QPSK       | 12      | 13        | 17.21                     | 17.24                        | 17.20                      |                     |
| 5               | QPSK       | 25      | 0         | 17.21                     | 17.18                        | 17.22                      | 19                  |
| 5               | 16QAM      | 1       | 0         | 17.39                     | 17.44                        | 17.47                      |                     |
| 5               | 16QAM      | 1       | 12        | 17.50                     | 17.56                        | 17.52                      | 19                  |
| 5               | 16QAM      | 1       | 24        | 17.50                     | 17.53                        | 17.49                      |                     |
| 5               | 16QAM      | 12      | 0         | 17.22                     | 17.22                        | 17.24                      | 19                  |
| 5               | 16QAM      | 12      | 7         | 17.28                     | 17.24                        | 17.26                      |                     |
| 5               | 16QAM      | 12      | 13        | 17.21                     | 17.24                        | 17.21                      | 19                  |
| 5               | 16QAM      | 25      | 0         | 17.21                     | 17.16                        | 17.22                      |                     |
| 5               | 64QAM      | 1       | 0         | 17.35                     | 17.41                        | 17.46                      | 19                  |
| 5               | 64QAM      | 1       | 12        | 17.43                     | 17.46                        | 17.43                      |                     |
| 5               | 64QAM      | 1       | 24        | 17.34                     | 17.48                        | 17.47                      | 19                  |
| 5               | 64QAM      | 12      | 0         | 17.26                     | 17.23                        | 17.27                      |                     |
| 5               | 64QAM      | 12      | 7         | 17.31                     | 17.30                        | 17.28                      | 19                  |
| 5               | 64QAM      | 12      | 13        | 17.25                     | 17.26                        | 17.23                      |                     |
| 5               | 64QAM      | 25      | 0         | 17.21                     | 17.18                        | 17.23                      |                     |

### <TDD LTE SAR Measurement>

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

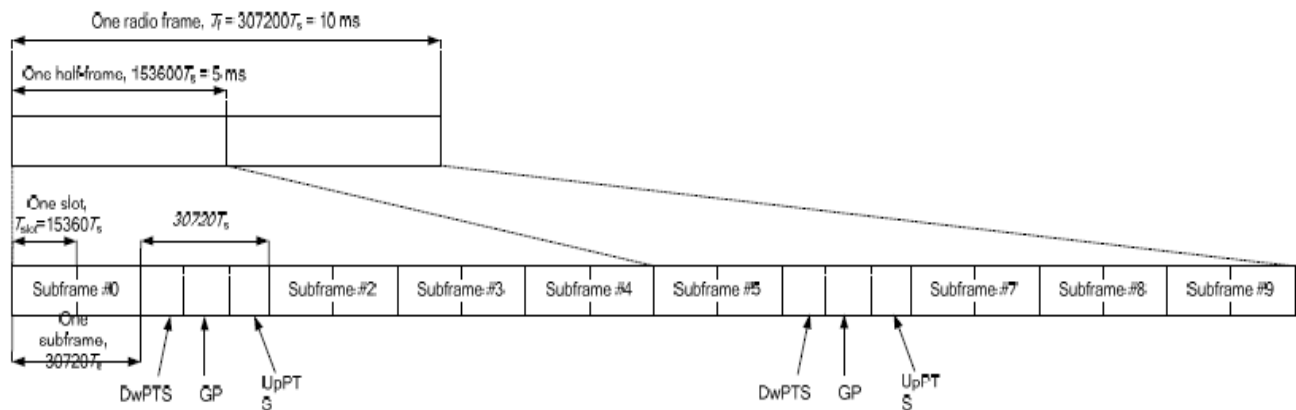


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

| Uplink-downlink configuration | Downlink-to-Uplink Switch-point periodicity | Subframe number |   |   |   |   |   |   |   |   |   |
|-------------------------------|---------------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
|                               |                                             | 0               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | U |
| 1                             | 5 ms                                        | D               | S | U | U | D | D | S | U | U | D |
| 2                             | 5 ms                                        | D               | S | U | D | D | D | S | U | D | D |
| 3                             | 10 ms                                       | D               | S | U | U | U | D | D | D | D | D |
| 4                             | 10 ms                                       | D               | S | U | U | D | D | D | D | D | D |
| 5                             | 10 ms                                       | D               | S | U | D | D | D | D | D | D | D |
| 6                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | D |

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

| Special subframe configuration | Normal cyclic prefix in downlink |                                |                                  | Extended cyclic prefix in downlink |                                |                                  |
|--------------------------------|----------------------------------|--------------------------------|----------------------------------|------------------------------------|--------------------------------|----------------------------------|
|                                | DwPTS                            | UpPTS                          |                                  | DwPTS                              | UpPTS                          |                                  |
|                                |                                  | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |                                    | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| 0                              | $6592 \cdot T_s$                 | $2192 \cdot T_s$               | $2560 \cdot T_s$                 | $7680 \cdot T_s$                   | $2192 \cdot T_s$               | $2560 \cdot T_s$                 |
| 1                              | $19760 \cdot T_s$                |                                |                                  | $20480 \cdot T_s$                  |                                |                                  |
| 2                              | $21952 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 3                              | $24144 \cdot T_s$                |                                |                                  | $25600 \cdot T_s$                  |                                |                                  |
| 4                              | $26336 \cdot T_s$                | $4384 \cdot T_s$               | $5120 \cdot T_s$                 | $7680 \cdot T_s$                   | $4384 \cdot T_s$               | $5120 \cdot T_s$                 |
| 5                              | $6592 \cdot T_s$                 |                                |                                  | $20480 \cdot T_s$                  |                                |                                  |
| 6                              | $19760 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 7                              | $21952 \cdot T_s$                |                                |                                  | $12800 \cdot T_s$                  |                                |                                  |
| 8                              | $24144 \cdot T_s$                |                                |                                  | -                                  | -                              | -                                |
| 9                              | $13168 \cdot T_s$                |                                |                                  | -                                  | -                              | -                                |



| Special subframe (30720·T <sub>s</sub> ): Normal cyclic prefix in downlink (UpPTS) |                                |                                |                                  |
|------------------------------------------------------------------------------------|--------------------------------|--------------------------------|----------------------------------|
|                                                                                    | Special subframe configuration | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| Uplink duty factor in one special subframe                                         | 0~4                            | 7.13%                          | 8.33%                            |
|                                                                                    | 5~9                            | 14.3%                          | 16.7%                            |

| Special subframe(30720·T <sub>s</sub> ): Extended cyclic prefix in downlink (UpPTS) |                                |                                |                                  |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|----------------------------------|
|                                                                                     | Special subframe configuration | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| Uplink duty factor in one special subframe                                          | 0~3                            | 7.13%                          | 8.33%                            |
|                                                                                     | 4~7                            | 14.3%                          | 16.7%                            |

The highest duty factor is resulted from:

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  $(3+0.167)/5 = 63.3\%$
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  $(3+0.143)/5 = 62.9\%$
- v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix  $63.3\%/62.9\% = 1.006$  is applied to scale-up the measured SAR result. The
- vi. The device supports Power Class 3 uplink-downlink configurations 0 and 6, and Power Class 2 uplink-downlink configurations 1 to 5 operations for LTE Band 41.
- vii. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1, for Power Class 3 operation is 63.3% using UL-DL configuration 0. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR among all exposure condition.



| Band 38_Ant 3   |            |         |           |                      |                         |                       |                     |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Middle Ch / Freq. | Power High Ch / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 37650                | 38000                   | 38150                 | 25                  |
| Frequency (MHz) |            |         |           | 23.60                | 23.75                   | 23.90                 |                     |
| 20              | QPSK       | 1       | 0         | 24.37                | 24.38                   | 24.38                 | 24                  |
| 20              | QPSK       | 1       | 49        | 24.36                | 24.34                   | 24.35                 |                     |
| 20              | QPSK       | 1       | 89        | 24.33                | 24.38                   | 24.31                 |                     |
| 20              | QPSK       | 50      | 0         | 23.24                | 23.25                   | 23.23                 |                     |
| 20              | QPSK       | 50      | 24        | 23.41                | 23.42                   | 23.32                 |                     |
| 20              | QPSK       | 80      | 50        | 23.33                | 23.34                   | 23.30                 | 23                  |
| 20              | QPSK       | 100     | 0         | 23.33                | 23.35                   | 23.23                 |                     |
| 20              | 16QAM      | 1       | 0         | 23.48                | 23.49                   | 23.45                 |                     |
| 20              | 16QAM      | 1       | 49        | 23.44                | 23.42                   | 23.42                 |                     |
| 20              | 16QAM      | 1       | 89        | 23.43                | 23.46                   | 23.47                 |                     |
| 20              | 16QAM      | 50      | 0         | 22.27                | 22.28                   | 22.25                 | 22                  |
| 20              | 16QAM      | 50      | 24        | 22.45                | 22.45                   | 22.37                 |                     |
| 20              | 16QAM      | 50      | 50        | 22.36                | 22.35                   | 22.33                 |                     |
| 20              | 16QAM      | 100     | 0         | 22.35                | 22.35                   | 22.26                 |                     |
| 20              | 64QAM      | 1       | 0         | 22.22                | 22.27                   | 22.25                 |                     |
| 20              | 64QAM      | 1       | 49        | 22.22                | 22.22                   | 22.25                 | 21                  |
| 20              | 64QAM      | 1       | 89        | 22.24                | 22.26                   | 22.31                 |                     |
| 20              | 64QAM      | 50      | 0         | 21.27                | 21.29                   | 21.28                 |                     |
| 20              | 64QAM      | 50      | 24        | 21.43                | 21.46                   | 21.36                 |                     |
| 20              | 64QAM      | 50      | 50        | 21.36                | 21.37                   | 21.33                 |                     |
| 20              | 64QAM      | 100     | 0         | 21.35                | 21.36                   | 21.29                 | 20                  |
| Channel         |            |         |           | 37625                | 38000                   | 38175                 |                     |
| Frequency (MHz) |            |         |           | 23.775               | 23.95                   | 24.125                | 19                  |
| 15              | QPSK       | 1       | 0         | 24.37                | 24.35                   | 24.32                 |                     |
| 15              | QPSK       | 1       | 37        | 24.33                | 24.33                   | 24.27                 | 18                  |
| 15              | QPSK       | 1       | 74        | 24.32                | 24.32                   | 24.30                 |                     |
| 15              | QPSK       | 36      | 0         | 23.28                | 23.29                   | 23.27                 |                     |
| 15              | QPSK       | 36      | 20        | 23.45                | 23.44                   | 23.32                 |                     |
| 15              | QPSK       | 36      | 39        | 23.37                | 23.36                   | 23.33                 |                     |
| 15              | QPSK       | 75      | 0         | 23.39                | 23.37                   | 23.28                 | 17                  |
| 15              | 16QAM      | 1       | 0         | 23.47                | 23.46                   | 23.46                 |                     |
| 15              | 16QAM      | 1       | 37        | 23.37                | 23.34                   | 23.39                 |                     |
| 15              | 16QAM      | 1       | 74        | 23.45                | 23.50                   | 23.46                 |                     |
| 15              | 16QAM      | 36      | 0         | 22.26                | 22.26                   | 22.24                 |                     |
| 15              | 16QAM      | 36      | 20        | 22.41                | 22.40                   | 22.30                 | 16                  |
| 15              | 16QAM      | 36      | 39        | 22.33                | 22.34                   | 22.31                 |                     |
| 15              | 16QAM      | 75      | 0         | 22.40                | 22.40                   | 22.29                 |                     |
| 15              | 64QAM      | 1       | 0         | 22.18                | 22.23                   | 22.19                 |                     |
| 15              | 64QAM      | 1       | 37        | 22.20                | 22.22                   | 22.24                 |                     |
| 15              | 64QAM      | 1       | 74        | 22.24                | 22.24                   | 22.26                 | 15                  |
| 15              | 64QAM      | 36      | 0         | 21.31                | 21.32                   | 21.30                 |                     |
| 15              | 64QAM      | 36      | 20        | 21.46                | 21.48                   | 21.34                 |                     |
| 15              | 64QAM      | 36      | 39        | 21.39                | 21.38                   | 21.34                 |                     |
| 15              | 64QAM      | 75      | 0         | 21.39                | 21.40                   | 21.28                 |                     |
| Channel         |            |         |           | 37600                | 38000                   | 38200                 | 14                  |
| Frequency (MHz) |            |         |           | 23.75                | 23.95                   | 24.15                 |                     |
| 10              | QPSK       | 1       | 0         | 23.61                | 23.99                   | 23.96                 | 13                  |
| 10              | QPSK       | 1       | 25        | 23.93                | 23.96                   | 23.97                 |                     |
| 10              | QPSK       | 1       | 49        | 23.76                | 24.07                   | 24.06                 |                     |
| 10              | QPSK       | 25      | 0         | 22.98                | 23.02                   | 22.98                 |                     |
| 10              | QPSK       | 25      | 12        | 23.16                | 23.22                   | 23.09                 |                     |
| 10              | QPSK       | 25      | 25        | 23.10                | 23.13                   | 23.05                 | 12                  |
| 10              | QPSK       | 50      | 0         | 23.07                | 23.12                   | 22.98                 |                     |
| 10              | 16QAM      | 1       | 0         | 23.06                | 23.39                   | 23.37                 |                     |
| 10              | 16QAM      | 1       | 25        | 23.35                | 23.35                   | 23.30                 |                     |
| 10              | 16QAM      | 1       | 49        | 23.07                | 23.36                   | 23.34                 |                     |
| 10              | 16QAM      | 25      | 0         | 22.00                | 22.05                   | 22.01                 | 11                  |
| 10              | 16QAM      | 25      | 12        | 22.21                | 22.22                   | 22.15                 |                     |
| 10              | 16QAM      | 25      | 25        | 22.14                | 22.13                   | 22.11                 |                     |
| 10              | 16QAM      | 50      | 0         | 22.15                | 22.14                   | 22.05                 |                     |
| 10              | 64QAM      | 1       | 0         | 21.91                | 22.24                   | 22.24                 |                     |
| 10              | 64QAM      | 1       | 25        | 22.28                | 22.32                   | 22.34                 | 10                  |
| 10              | 64QAM      | 1       | 49        | 22.02                | 22.28                   | 22.29                 |                     |
| 10              | 64QAM      | 25      | 0         | 21.08                | 21.12                   | 21.07                 |                     |
| 10              | 64QAM      | 25      | 12        | 21.30                | 21.29                   | 21.18                 |                     |
| 10              | 64QAM      | 25      | 25        | 21.17                | 21.21                   | 21.17                 |                     |
| 10              | 64QAM      | 50      | 0         | 21.15                | 21.14                   | 21.05                 | 9                   |
| Channel         |            |         |           | 37775                | 38000                   | 38225                 |                     |
| Frequency (MHz) |            |         |           | 23.725               | 23.95                   | 24.175                | 8                   |
| 5               | QPSK       | 1       | 0         | 23.95                | 24.00                   | 24.00                 |                     |
| 5               | QPSK       | 1       | 12        | 24.03                | 24.11                   | 24.05                 | 7                   |
| 5               | QPSK       | 1       | 24        | 24.02                | 24.04                   | 24.04                 |                     |
| 5               | QPSK       | 12      | 0         | 23.15                | 23.14                   | 23.05                 |                     |
| 5               | QPSK       | 12      | 7         | 23.21                | 23.23                   | 23.20                 |                     |
| 5               | QPSK       | 12      | 13        | 23.16                | 23.21                   | 23.15                 | 6                   |
| 5               | QPSK       | 25      | 0         | 23.15                | 23.19                   | 23.14                 |                     |
| 5               | 16QAM      | 1       | 0         | 23.08                | 23.16                   | 23.09                 |                     |
| 5               | 16QAM      | 1       | 12        | 23.25                | 23.27                   | 23.25                 |                     |
| 5               | 16QAM      | 1       | 24        | 23.21                | 23.26                   | 23.21                 |                     |
| 5               | 16QAM      | 12      | 0         | 22.13                | 22.12                   | 22.05                 | 5                   |
| 5               | 16QAM      | 12      | 7         | 22.19                | 22.23                   | 22.17                 |                     |
| 5               | 16QAM      | 12      | 13        | 22.15                | 22.20                   | 22.13                 |                     |
| 5               | 16QAM      | 25      | 0         | 22.20                | 22.21                   | 22.18                 |                     |
| 5               | 64QAM      | 1       | 0         | 21.85                | 21.88                   | 21.87                 |                     |
| 5               | 64QAM      | 1       | 12        | 21.96                | 22.01                   | 21.98                 | 4                   |
| 5               | 64QAM      | 1       | 24        | 21.97                | 22.00                   | 21.98                 |                     |
| 5               | 64QAM      | 12      | 0         | 21.20                | 21.14                   | 21.13                 |                     |
| 5               | 64QAM      | 12      | 7         | 21.25                | 21.28                   | 21.21                 |                     |
| 5               | 64QAM      | 12      | 13        | 21.23                | 21.24                   | 21.20                 |                     |
| 5               | 64QAM      | 25      | 0         | 21.23                | 21.27                   | 21.20                 | 3                   |



| Band 41_Ant 3   |            |         |           |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2500                | 2543.5                     | 2587                   | 2630.5                      | 2674                 |                     |
| 20              | QPSK       | 1       | 0         | 23.90               | 23.85                      | 23.85                  | 23.73                       | 23.50                | 24.5                |
| 20              | QPSK       | 1       | 49        | 23.90               | 23.86                      | 23.89                  | 23.93                       | 23.85                |                     |
| 20              | QPSK       | 1       | 99        | 23.81               | 23.84                      | 23.73                  | 23.50                       | 23.75                |                     |
| 20              | QPSK       | 50      | 0         | 22.95               | 22.89                      | 22.93                  | 22.93                       | 22.79                |                     |
| 20              | QPSK       | 50      | 24        | 22.86               | 22.87                      | 23.13                  | 22.87                       | 22.92                |                     |
| 20              | QPSK       | 50      | 50        | 22.90               | 22.95                      | 23.06                  | 22.89                       | 22.91                | 23.5                |
| 20              | QPSK       | 100     | 0         | 22.87               | 22.86                      | 23.04                  | 22.86                       | 22.83                |                     |
| 20              | 16QAM      | 1       | 0         | 23.06               | 23.04                      | 22.77                  | 22.87                       | 22.64                |                     |
| 20              | 16QAM      | 1       | 49        | 22.93               | 22.91                      | 23.09                  | 23.05                       | 22.92                |                     |
| 20              | 16QAM      | 1       | 99        | 22.83               | 23.03                      | 22.80                  | 22.61                       | 22.85                |                     |
| 20              | 16QAM      | 50      | 0         | 22.06               | 21.92                      | 21.87                  | 21.87                       | 21.82                | 22.5                |
| 20              | 16QAM      | 50      | 24        | 22.00               | 22.02                      | 22.14                  | 22.02                       | 21.94                |                     |
| 20              | 16QAM      | 50      | 50        | 21.91               | 21.88                      | 22.09                  | 21.93                       | 22.00                |                     |
| 20              | 16QAM      | 100     | 0         | 21.90               | 21.90                      | 22.07                  | 21.90                       | 21.86                |                     |
| 20              | 64QAM      | 1       | 0         | 21.85               | 21.79                      | 21.49                  | 21.61                       | 21.34                |                     |
| 20              | 64QAM      | 1       | 49        | 21.71               | 21.69                      | 21.86                  | 21.80                       | 21.71                | 22.5                |
| 20              | 64QAM      | 1       | 99        | 21.71               | 21.85                      | 21.57                  | 21.42                       | 21.64                |                     |
| 20              | 64QAM      | 50      | 0         | 21.01               | 20.91                      | 20.98                  | 20.98                       | 20.82                |                     |
| 20              | 64QAM      | 50      | 24        | 20.99               | 21.00                      | 21.16                  | 21.01                       | 20.94                |                     |
| 20              | 64QAM      | 50      | 50        | 20.84               | 20.98                      | 21.09                  | 20.93                       | 20.99                |                     |
| 20              | 64QAM      | 100     | 0         | 20.91               | 20.90                      | 21.07                  | 20.91                       | 20.87                | 21.5                |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                |                     |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |
| 15              | QPSK       | 1       | 0         | 23.93               | 23.87                      | 23.80                  | 23.87                       | 23.62                | 24.5                |
| 15              | QPSK       | 1       | 37        | 23.87               | 23.78                      | 23.95                  | 23.87                       | 23.83                |                     |
| 15              | QPSK       | 1       | 74        | 23.83               | 23.61                      | 23.84                  | 23.66                       | 23.78                |                     |
| 15              | QPSK       | 36      | 0         | 22.97               | 22.84                      | 22.96                  | 22.94                       | 22.82                |                     |
| 15              | QPSK       | 36      | 20        | 22.87               | 22.98                      | 23.13                  | 23.05                       | 23.00                |                     |
| 15              | QPSK       | 36      | 39        | 22.93               | 22.87                      | 23.07                  | 22.93                       | 22.96                | 23.5                |
| 15              | QPSK       | 75      | 0         | 22.81               | 22.90                      | 23.07                  | 22.97                       | 22.88                |                     |
| 15              | 16QAM      | 1       | 0         | 23.06               | 22.84                      | 22.92                  | 22.97                       | 22.75                |                     |
| 15              | 16QAM      | 1       | 37        | 22.90               | 22.92                      | 23.06                  | 23.06                       | 22.91                |                     |
| 15              | 16QAM      | 1       | 74        | 22.85               | 22.80                      | 22.97                  | 22.83                       | 22.92                |                     |
| 15              | 16QAM      | 36      | 0         | 21.96               | 21.82                      | 21.93                  | 21.94                       | 21.79                | 22.5                |
| 15              | 16QAM      | 36      | 20        | 21.83               | 21.95                      | 22.10                  | 22.02                       | 21.95                |                     |
| 15              | 16QAM      | 36      | 39        | 21.91               | 21.88                      | 22.06                  | 21.92                       | 21.95                |                     |
| 15              | 16QAM      | 75      | 0         | 21.94               | 21.93                      | 22.10                  | 22.02                       | 21.89                |                     |
| 15              | 64QAM      | 1       | 0         | 21.85               | 21.57                      | 21.65                  | 21.74                       | 21.52                |                     |
| 15              | 64QAM      | 1       | 37        | 21.74               | 21.77                      | 21.87                  | 21.85                       | 21.76                | 22.5                |
| 15              | 64QAM      | 1       | 74        | 21.71               | 21.82                      | 21.71                  | 21.60                       | 21.76                |                     |
| 15              | 64QAM      | 36      | 0         | 20.99               | 20.86                      | 21.00                  | 20.97                       | 20.85                |                     |
| 15              | 64QAM      | 36      | 20        | 21.00               | 21.00                      | 21.16                  | 21.08                       | 21.02                |                     |
| 15              | 64QAM      | 36      | 39        | 20.85               | 20.89                      | 21.10                  | 20.95                       | 20.98                |                     |
| 15              | 64QAM      | 75      | 0         | 20.95               | 20.93                      | 21.07                  | 21.02                       | 20.89                | 21.5                |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |
| 10              | QPSK       | 1       | 0         | 23.86               | 23.68                      | 23.85                  | 23.92                       | 23.71                | 24.5                |
| 10              | QPSK       | 1       | 25        | 23.87               | 23.87                      | 23.90                  | 23.80                       | 23.80                |                     |
| 10              | QPSK       | 1       | 49        | 23.89               | 23.51                      | 23.93                  | 23.74                       | 23.72                |                     |
| 10              | QPSK       | 25      | 0         | 23.04               | 22.81                      | 23.06                  | 22.92                       | 22.74                |                     |
| 10              | QPSK       | 25      | 12        | 22.95               | 23.02                      | 23.04                  | 23.03                       | 22.93                |                     |
| 10              | QPSK       | 25      | 25        | 22.85               | 22.81                      | 23.10                  | 22.93                       | 22.90                | 23.5                |
| 10              | QPSK       | 50      | 0         | 22.86               | 22.91                      | 22.98                  | 23.03                       | 22.88                |                     |
| 10              | 16QAM      | 1       | 0         | 23.05               | 22.84                      | 22.99                  | 22.97                       | 22.65                |                     |
| 10              | 16QAM      | 1       | 25        | 22.90               | 22.94                      | 23.11                  | 23.11                       | 22.92                |                     |
| 10              | 16QAM      | 1       | 49        | 22.85               | 22.94                      | 22.95                  | 22.90                       | 22.87                |                     |
| 10              | 16QAM      | 25      | 0         | 22.04               | 21.73                      | 21.85                  | 22.01                       | 21.72                | 22.5                |
| 10              | 16QAM      | 25      | 12        | 21.89               | 22.01                      | 22.10                  | 22.08                       | 22.02                |                     |
| 10              | 16QAM      | 25      | 25        | 21.92               | 21.93                      | 22.09                  | 21.94                       | 21.90                |                     |
| 10              | 16QAM      | 50      | 0         | 22.02               | 21.95                      | 22.00                  | 21.92                       | 21.93                |                     |
| 10              | 64QAM      | 1       | 0         | 21.85               | 21.65                      | 21.72                  | 21.71                       | 21.54                |                     |
| 10              | 64QAM      | 1       | 25        | 21.87               | 21.75                      | 21.89                  | 21.87                       | 21.77                | 22.5                |
| 10              | 64QAM      | 1       | 49        | 21.66               | 21.62                      | 21.72                  | 21.66                       | 21.70                |                     |
| 10              | 64QAM      | 25      | 0         | 21.08               | 20.85                      | 20.97                  | 20.96                       | 20.84                |                     |
| 10              | 64QAM      | 25      | 12        | 21.05               | 20.86                      | 21.16                  | 21.07                       | 21.02                |                     |
| 10              | 64QAM      | 25      | 25        | 20.99               | 20.94                      | 21.14                  | 20.92                       | 21.07                |                     |
| 10              | 64QAM      | 50      | 0         | 20.87               | 20.88                      | 21.03                  | 20.99                       | 20.79                | 21.5                |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41093                       | 41565                |                     |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.39                     | 2687.5               |                     |
| 5               | QPSK       | 1       | 0         | 23.76               | 23.63                      | 23.75                  | 23.70                       | 23.72                | 24.5                |
| 5               | QPSK       | 1       | 12        | 23.64               | 23.59                      | 23.80                  | 23.71                       | 23.70                |                     |
| 5               | QPSK       | 1       | 24        | 23.66               | 23.63                      | 23.75                  | 23.70                       | 23.65                |                     |
| 5               | QPSK       | 12      | 0         | 22.85               | 22.75                      | 22.87                  | 22.79                       | 22.82                |                     |
| 5               | QPSK       | 12      | 7         | 22.88               | 22.81                      | 22.95                  | 22.82                       | 22.83                |                     |
| 5               | QPSK       | 12      | 13        | 22.84               | 22.79                      | 22.91                  | 22.82                       | 22.78                | 23.5                |
| 5               | QPSK       | 25      | 0         | 22.82               | 22.79                      | 22.90                  | 22.78                       | 22.79                |                     |
| 5               | 16QAM      | 1       | 0         | 22.89               | 22.75                      | 22.92                  | 22.81                       | 22.89                |                     |
| 5               | 16QAM      | 1       | 12        | 22.87               | 22.80                      | 22.99                  | 22.90                       | 22.86                |                     |
| 5               | 16QAM      | 1       | 24        | 22.92               | 22.76                      | 22.98                  | 22.86                       | 22.85                |                     |
| 5               | 16QAM      | 12      | 0         | 21.84               | 21.75                      | 21.88                  | 21.78                       | 21.79                | 22.5                |
| 5               | 16QAM      | 12      | 7         | 21.86               | 21.80                      | 21.91                  | 21.80                       | 21.76                |                     |
| 5               | 16QAM      | 12      | 13        | 21.83               | 21.79                      | 21.89                  | 21.83                       | 21.77                |                     |
| 5               | 16QAM      | 25      | 0         | 21.88               | 21.83                      | 21.96                  | 21.82                       | 21.83                |                     |
| 5               | 64QAM      | 1       | 0         | 21.66               | 21.59                      | 21.65                  | 21.66                       | 21.67                |                     |
| 5               | 64QAM      | 1       | 12        | 21.59               | 21.68                      | 21.73                  | 21.71                       | 21.62                | 22.5                |
| 5               | 64QAM      | 1       | 24        | 21.63               | 21.68                      | 21.73                  | 21.69                       | 21.59                |                     |
| 5               | 64QAM      | 12      | 0         | 20.89               | 20.80                      | 20.92                  | 20.86                       | 20.83                |                     |
| 5               | 64QAM      | 12      | 7         | 20.91               | 20.87                      | 21.01                  | 20.86                       | 20.89                |                     |
| 5               | 64QAM      | 12      | 13        | 20.88               | 20.84                      | 20.96                  | 20.90                       | 20.82                |                     |
| 5               | 64QAM      | 25      | 0         | 20.87               | 20.84                      | 21.00                  | 20.85                       | 20.84                |                     |



| Band 41_Ant 3   |            |         |           |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |
| 20              | QPSK       | 1       | 0         | 25.13               | 25.05                      | 24.83                  | 24.84                       | 24.73                | 26                  |
| 20              | QPSK       | 1       | 49        | 25.08               | 25.05                      | 25.21                  | 25.08                       | 25.12                |                     |
| 20              | QPSK       | 1       | 99        | 25.10               | 25.11                      | 24.87                  | 24.70                       | 25.09                |                     |
| 20              | QPSK       | 50      | 0         | 24.27               | 24.17                      | 24.16                  | 24.17                       | 24.13                |                     |
| 20              | QPSK       | 50      | 24        | 24.26               | 24.27                      | 24.36                  | 24.22                       | 24.29                |                     |
| 20              | QPSK       | 50      | 50        | 24.22               | 24.24                      | 24.30                  | 24.16                       | 24.36                | 25                  |
| 20              | QPSK       | 100     | 0         | 24.18               | 24.17                      | 24.25                  | 24.12                       | 24.23                |                     |
| 20              | 16QAM      | 1       | 0         | 24.53               | 24.52                      | 24.15                  | 24.23                       | 24.12                |                     |
| 20              | 16QAM      | 1       | 49        | 24.40               | 24.45                      | 24.53                  | 24.45                       | 24.56                |                     |
| 20              | 16QAM      | 1       | 99        | 24.45               | 24.46                      | 24.22                  | 24.09                       | 24.44                |                     |
| 20              | 16QAM      | 50      | 0         | 23.36               | 23.20                      | 23.16                  | 23.21                       | 23.16                | 24                  |
| 20              | 16QAM      | 50      | 24        | 23.31               | 23.30                      | 23.38                  | 23.27                       | 23.34                |                     |
| 20              | 16QAM      | 50      | 50        | 23.26               | 23.30                      | 23.33                  | 23.20                       | 23.40                |                     |
| 20              | 16QAM      | 100     | 0         | 23.22               | 23.20                      | 23.30                  | 23.16                       | 23.25                |                     |
| 20              | 64QAM      | 1       | 0         | 23.20               | 23.32                      | 22.99                  | 23.04                       | 22.92                |                     |
| 20              | 64QAM      | 1       | 49        | 23.28               | 23.24                      | 23.11                  | 23.30                       | 23.03                | 24                  |
| 20              | 64QAM      | 1       | 99        | 23.31               | 23.43                      | 22.91                  | 22.97                       | 22.98                |                     |
| 20              | 64QAM      | 50      | 0         | 22.31               | 22.20                      | 22.18                  | 22.22                       | 22.09                |                     |
| 20              | 64QAM      | 50      | 24        | 22.33               | 22.30                      | 22.13                  | 22.28                       | 22.11                |                     |
| 20              | 64QAM      | 50      | 50        | 22.28               | 22.29                      | 22.11                  | 22.20                       | 22.18                |                     |
| 20              | 64QAM      | 100     | 0         | 22.21               | 22.21                      | 22.11                  | 22.17                       | 22.10                | 23                  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |
| 15              | QPSK       | 1       | 0         | 25.18               | 24.83                      | 25.00                  | 25.05                       | 24.94                | 26                  |
| 15              | QPSK       | 1       | 37        | 25.15               | 25.14                      | 25.20                  | 25.16                       | 25.21                |                     |
| 15              | QPSK       | 1       | 74        | 25.17               | 24.94                      | 25.13                  | 24.97                       | 25.21                |                     |
| 15              | QPSK       | 36      | 0         | 24.29               | 24.13                      | 24.19                  | 24.19                       | 24.19                |                     |
| 15              | QPSK       | 36      | 20        | 24.28               | 24.29                      | 24.40                  | 24.33                       | 24.38                |                     |
| 15              | QPSK       | 36      | 39        | 24.26               | 24.19                      | 24.33                  | 24.22                       | 24.35                | 25                  |
| 15              | QPSK       | 75      | 0         | 24.23               | 24.20                      | 24.31                  | 24.25                       | 24.24                |                     |
| 15              | 16QAM      | 1       | 0         | 24.50               | 24.29                      | 24.34                  | 24.37                       | 24.28                |                     |
| 15              | 16QAM      | 1       | 37        | 24.44               | 24.47                      | 24.54                  | 24.46                       | 24.55                |                     |
| 15              | 16QAM      | 1       | 74        | 24.48               | 24.28                      | 24.38                  | 24.31                       | 24.53                |                     |
| 15              | 16QAM      | 36      | 0         | 23.27               | 23.13                      | 23.18                  | 23.18                       | 23.17                | 24                  |
| 15              | 16QAM      | 36      | 20        | 23.28               | 23.27                      | 23.37                  | 23.29                       | 23.36                |                     |
| 15              | 16QAM      | 36      | 39        | 23.25               | 23.20                      | 23.33                  | 23.21                       | 23.35                |                     |
| 15              | 16QAM      | 75      | 0         | 23.26               | 23.23                      | 23.33                  | 23.27                       | 23.25                |                     |
| 15              | 64QAM      | 1       | 0         | 23.07               | 23.10                      | 23.15                  | 23.19                       | 23.00                |                     |
| 15              | 64QAM      | 1       | 37        | 23.34               | 23.40                      | 22.98                  | 23.37                       | 23.00                | 24                  |
| 15              | 64QAM      | 1       | 74        | 23.32               | 23.22                      | 22.90                  | 23.17                       | 23.08                |                     |
| 15              | 64QAM      | 36      | 0         | 22.24               | 22.16                      | 22.08                  | 22.22                       | 22.03                |                     |
| 15              | 64QAM      | 36      | 20        | 22.31               | 22.30                      | 22.03                  | 22.34                       | 22.10                |                     |
| 15              | 64QAM      | 36      | 39        | 22.27               | 22.22                      | 22.03                  | 22.24                       | 22.12                |                     |
| 15              | 64QAM      | 75      | 0         | 22.29               | 22.22                      | 22.08                  | 22.26                       | 22.07                | 23                  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |
| 10              | QPSK       | 1       | 0         | 24.94               | 24.65                      | 24.78                  | 24.67                       | 24.74                | 26                  |
| 10              | QPSK       | 1       | 25        | 24.91               | 24.83                      | 25.01                  | 24.92                       | 24.98                |                     |
| 10              | QPSK       | 1       | 49        | 24.97               | 24.75                      | 24.82                  | 24.79                       | 24.83                |                     |
| 10              | QPSK       | 25      | 0         | 24.13               | 23.96                      | 24.04                  | 23.99                       | 24.07                |                     |
| 10              | QPSK       | 25      | 12        | 24.15               | 24.15                      | 24.20                  | 24.09                       | 24.22                |                     |
| 10              | QPSK       | 25      | 25        | 24.12               | 24.03                      | 24.12                  | 24.04                       | 24.11                | 25                  |
| 10              | QPSK       | 50      | 0         | 24.06               | 24.06                      | 24.12                  | 24.00                       | 24.14                |                     |
| 10              | 16QAM      | 1       | 0         | 24.36               | 24.05                      | 24.09                  | 24.04                       | 24.15                |                     |
| 10              | 16QAM      | 1       | 25        | 24.30               | 24.27                      | 24.35                  | 24.32                       | 24.36                |                     |
| 10              | 16QAM      | 1       | 49        | 24.29               | 24.05                      | 24.11                  | 24.05                       | 24.10                |                     |
| 10              | 16QAM      | 25      | 0         | 23.13               | 23.03                      | 23.10                  | 23.02                       | 23.09                | 24                  |
| 10              | 16QAM      | 25      | 12        | 23.19               | 23.21                      | 23.26                  | 23.14                       | 23.26                |                     |
| 10              | 16QAM      | 25      | 25        | 23.15               | 23.05                      | 23.15                  | 23.07                       | 23.15                |                     |
| 10              | 16QAM      | 50      | 0         | 23.10               | 23.11                      | 23.16                  | 23.03                       | 23.18                |                     |
| 10              | 64QAM      | 1       | 0         | 23.02               | 22.93                      | 23.01                  | 22.95                       | 23.02                |                     |
| 10              | 64QAM      | 1       | 25        | 23.19               | 23.29                      | 23.01                  | 23.28                       | 23.10                | 24                  |
| 10              | 64QAM      | 1       | 49        | 23.18               | 23.02                      | 22.91                  | 23.02                       | 23.04                |                     |
| 10              | 64QAM      | 25      | 0         | 22.20               | 22.09                      | 22.12                  | 22.10                       | 22.14                |                     |
| 10              | 64QAM      | 25      | 12        | 22.23               | 22.27                      | 22.11                  | 22.18                       | 22.21                |                     |
| 10              | 64QAM      | 25      | 25        | 22.20               | 22.14                      | 22.08                  | 22.15                       | 22.16                |                     |
| 10              | 64QAM      | 50      | 0         | 22.08               | 22.11                      | 22.00                  | 22.03                       | 22.06                | 23                  |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.30                     | 2687.5               |                     |
| 5               | QPSK       | 1       | 0         | 24.88               | 24.82                      | 24.87                  | 24.81                       | 25.07                | 26                  |
| 5               | QPSK       | 1       | 12        | 24.97               | 24.95                      | 25.04                  | 24.96                       | 25.07                |                     |
| 5               | QPSK       | 1       | 24        | 24.94               | 24.95                      | 24.98                  | 24.95                       | 25.01                |                     |
| 5               | QPSK       | 12      | 0         | 24.14               | 24.07                      | 24.12                  | 24.10                       | 24.20                |                     |
| 5               | QPSK       | 12      | 7         | 24.19               | 24.16                      | 24.23                  | 24.11                       | 24.23                |                     |
| 5               | QPSK       | 12      | 13        | 24.13               | 24.14                      | 24.21                  | 24.15                       | 24.22                | 25                  |
| 5               | QPSK       | 25      | 0         | 24.09               | 24.10                      | 24.16                  | 24.07                       | 24.20                |                     |
| 5               | 16QAM      | 1       | 0         | 24.32               | 24.19                      | 24.27                  | 24.21                       | 24.35                |                     |
| 5               | 16QAM      | 1       | 12        | 24.27               | 24.24                      | 24.35                  | 24.28                       | 24.35                |                     |
| 5               | 16QAM      | 1       | 24        | 24.29               | 24.28                      | 24.35                  | 24.28                       | 24.33                |                     |
| 5               | 16QAM      | 12      | 0         | 23.17               | 23.12                      | 23.15                  | 23.13                       | 23.24                | 24                  |
| 5               | 16QAM      | 12      | 7         | 23.22               | 23.18                      | 23.27                  | 23.12                       | 23.25                |                     |
| 5               | 16QAM      | 12      | 13        | 23.15               | 23.17                      | 23.24                  | 23.15                       | 23.22                |                     |
| 5               | 16QAM      | 25      | 0         | 23.18               | 23.19                      | 23.23                  | 23.14                       | 23.26                |                     |
| 5               | 64QAM      | 1       | 0         | 23.09               | 23.14                      | 23.12                  | 23.11                       | 23.15                |                     |
| 5               | 64QAM      | 1       | 12        | 23.19               | 23.22                      | 23.09                  | 23.21                       | 23.14                | 24                  |
| 5               | 64QAM      | 1       | 24        | 23.20               | 23.19                      | 23.08                  | 23.21                       | 23.13                |                     |
| 5               | 64QAM      | 12      | 0         | 22.22               | 22.14                      | 22.15                  | 22.13                       | 22.19                |                     |
| 5               | 64QAM      | 12      | 7         | 22.20               | 22.26                      | 22.15                  | 22.17                       | 22.20                |                     |
| 5               | 64QAM      | 12      | 13        | 22.20               | 22.22                      | 22.10                  | 22.19                       | 22.16                |                     |
| 5               | 64QAM      | 25      | 0         | 22.26               | 22.22                      | 22.07                  | 22.15                       | 22.17                | 23                  |



| Band 38_Ant 3   |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 37650                 | 38000                    | 38150                  |                     |
| Frequency (MHz) |            |         |           | 2260                  | 2295                     | 2310                   |                     |
| 20              | QPSK       | 1       | 0         | 22.81                 | 22.86                    | 22.85                  | 23.5                |
| 20              | QPSK       | 1       | 49        | 22.92                 | 22.93                    | 22.91                  |                     |
| 20              | QPSK       | 1       | 89        | 22.90                 | 22.91                    | 22.85                  |                     |
| 20              | QPSK       | 50      | 0         | 22.81                 | 22.79                    | 22.74                  |                     |
| 20              | QPSK       | 50      | 24        | 22.97                 | 22.98                    | 22.87                  | 23.5                |
| 20              | QPSK       | 50      | 50        | 22.92                 | 22.90                    | 22.85                  |                     |
| 20              | QPSK       | 100     | 0         | 22.89                 | 22.88                    | 22.75                  |                     |
| 20              | 16QAM      | 1       | 0         | 23.01                 | 23.04                    | 22.98                  | 23.5                |
| 20              | 16QAM      | 1       | 49        | 23.01                 | 23.00                    | 22.96                  |                     |
| 20              | 16QAM      | 1       | 89        | 23.05                 | 23.04                    | 23.02                  |                     |
| 20              | 16QAM      | 50      | 0         | 22.32                 | 22.32                    | 22.27                  |                     |
| 20              | 16QAM      | 50      | 24        | 22.51                 | 22.51                    | 22.39                  | 23                  |
| 20              | 16QAM      | 50      | 50        | 22.43                 | 22.42                    | 22.36                  |                     |
| 20              | 16QAM      | 100     | 0         | 22.40                 | 22.40                    | 22.28                  |                     |
| 20              | 64QAM      | 1       | 0         | 22.26                 | 22.27                    | 22.24                  | 23                  |
| 20              | 64QAM      | 1       | 49        | 22.30                 | 22.28                    | 22.29                  |                     |
| 20              | 64QAM      | 1       | 89        | 22.31                 | 22.32                    | 22.34                  |                     |
| 20              | 64QAM      | 50      | 0         | 21.32                 | 21.30                    | 21.26                  |                     |
| 20              | 64QAM      | 50      | 24        | 21.53                 | 21.53                    | 21.39                  | 22                  |
| 20              | 64QAM      | 50      | 50        | 21.44                 | 21.43                    | 21.37                  |                     |
| 20              | 64QAM      | 100     | 0         | 21.40                 | 21.38                    | 21.25                  |                     |
| Channel         |            |         |           | 37625                 | 38000                    | 38175                  |                     |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |
| 15              | QPSK       | 1       | 0         | 22.85                 | 22.86                    | 22.80                  | 23.5                |
| 15              | QPSK       | 1       | 37        | 22.87                 | 22.89                    | 22.82                  |                     |
| 15              | QPSK       | 1       | 74        | 22.90                 | 22.92                    | 22.86                  |                     |
| 15              | QPSK       | 36      | 0         | 22.81                 | 22.83                    | 22.79                  |                     |
| 15              | QPSK       | 36      | 20        | 22.99                 | 23.00                    | 22.88                  | 23.5                |
| 15              | QPSK       | 36      | 39        | 22.94                 | 22.92                    | 22.87                  |                     |
| 15              | QPSK       | 75      | 0         | 22.93                 | 22.94                    | 22.80                  |                     |
| 15              | 16QAM      | 1       | 0         | 22.98                 | 23.01                    | 22.89                  |                     |
| 15              | 16QAM      | 1       | 37        | 22.92                 | 22.94                    | 22.97                  | 23.5                |
| 15              | 16QAM      | 1       | 74        | 23.04                 | 23.04                    | 23.04                  |                     |
| 15              | 16QAM      | 36      | 0         | 22.29                 | 22.30                    | 22.24                  |                     |
| 15              | 16QAM      | 36      | 20        | 22.46                 | 22.46                    | 22.34                  |                     |
| 15              | 16QAM      | 36      | 39        | 22.41                 | 22.40                    | 22.36                  | 23                  |
| 15              | 16QAM      | 75      | 0         | 22.46                 | 22.45                    | 22.33                  |                     |
| 15              | 64QAM      | 1       | 0         | 22.19                 | 22.25                    | 22.19                  |                     |
| 15              | 64QAM      | 1       | 37        | 22.25                 | 22.26                    | 22.30                  |                     |
| 15              | 64QAM      | 1       | 74        | 22.28                 | 22.28                    | 22.29                  | 22                  |
| 15              | 64QAM      | 36      | 0         | 21.35                 | 21.36                    | 21.31                  |                     |
| 15              | 64QAM      | 36      | 20        | 21.51                 | 21.51                    | 21.38                  |                     |
| 15              | 64QAM      | 36      | 39        | 21.45                 | 21.44                    | 21.39                  |                     |
| 15              | 64QAM      | 75      | 0         | 21.43                 | 21.44                    | 21.32                  |                     |
| Channel         |            |         |           | 37600                 | 38000                    | 38200                  |                     |
| Frequency (MHz) |            |         |           | 2675                  | 2695                     | 2715                   |                     |
| 10              | QPSK       | 1       | 0         | 22.92                 | 22.91                    | 22.74                  | 23.5                |
| 10              | QPSK       | 1       | 25        | 22.79                 | 22.96                    | 22.90                  |                     |
| 10              | QPSK       | 1       | 49        | 22.82                 | 22.89                    | 22.86                  |                     |
| 10              | QPSK       | 25      | 0         | 22.89                 | 22.93                    | 22.80                  |                     |
| 10              | QPSK       | 25      | 12        | 23.01                 | 23.00                    | 22.83                  | 23.5                |
| 10              | QPSK       | 25      | 25        | 22.94                 | 22.90                    | 22.84                  |                     |
| 10              | QPSK       | 50      | 0         | 22.94                 | 22.87                    | 22.76                  |                     |
| 10              | 16QAM      | 1       | 0         | 23.01                 | 23.04                    | 23.03                  |                     |
| 10              | 16QAM      | 1       | 25        | 22.93                 | 22.88                    | 23.01                  | 23.5                |
| 10              | 16QAM      | 1       | 49        | 23.01                 | 23.04                    | 22.99                  |                     |
| 10              | 16QAM      | 25      | 0         | 22.30                 | 22.34                    | 22.15                  |                     |
| 10              | 16QAM      | 25      | 12        | 22.41                 | 22.36                    | 22.32                  |                     |
| 10              | 16QAM      | 25      | 25        | 22.42                 | 22.49                    | 22.43                  | 23                  |
| 10              | 16QAM      | 50      | 0         | 22.45                 | 22.46                    | 22.34                  |                     |
| 10              | 64QAM      | 1       | 0         | 22.24                 | 22.16                    | 22.25                  |                     |
| 10              | 64QAM      | 1       | 25        | 22.15                 | 22.26                    | 22.25                  |                     |
| 10              | 64QAM      | 1       | 49        | 22.37                 | 22.22                    | 22.23                  | 22                  |
| 10              | 64QAM      | 25      | 0         | 21.39                 | 21.43                    | 21.28                  |                     |
| 10              | 64QAM      | 25      | 12        | 21.44                 | 21.46                    | 21.30                  |                     |
| 10              | 64QAM      | 25      | 25        | 21.42                 | 21.45                    | 21.49                  |                     |
| 10              | 64QAM      | 50      | 0         | 21.39                 | 21.40                    | 21.23                  |                     |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  |                     |
| Frequency (MHz) |            |         |           | 2722.5                | 2735                     | 2747.5                 |                     |
| 5               | QPSK       | 1       | 0         | 22.52                 | 22.56                    | 22.54                  | 23.5                |
| 5               | QPSK       | 1       | 12        | 22.81                 | 22.86                    | 22.83                  |                     |
| 5               | QPSK       | 1       | 24        | 22.82                 | 22.82                    | 22.81                  |                     |
| 5               | QPSK       | 12      | 0         | 22.70                 | 22.68                    | 22.63                  |                     |
| 5               | QPSK       | 12      | 7         | 22.78                 | 22.81                    | 22.76                  | 23.5                |
| 5               | QPSK       | 12      | 13        | 22.74                 | 22.77                    | 22.69                  |                     |
| 5               | QPSK       | 25      | 0         | 22.74                 | 22.76                    | 22.69                  |                     |
| 5               | 16QAM      | 1       | 0         | 22.65                 | 22.69                    | 22.64                  |                     |
| 5               | 16QAM      | 1       | 12        | 22.81                 | 22.91                    | 22.82                  | 23.5                |
| 5               | 16QAM      | 1       | 24        | 22.78                 | 22.83                    | 22.75                  |                     |
| 5               | 16QAM      | 12      | 0         | 22.16                 | 22.16                    | 22.11                  |                     |
| 5               | 16QAM      | 12      | 7         | 22.27                 | 22.28                    | 22.24                  |                     |
| 5               | 16QAM      | 12      | 13        | 22.21                 | 22.24                    | 22.21                  | 23                  |
| 5               | 16QAM      | 25      | 0         | 22.27                 | 22.30                    | 22.26                  |                     |
| 5               | 64QAM      | 1       | 0         | 21.94                 | 21.99                    | 21.91                  |                     |
| 5               | 64QAM      | 1       | 12        | 22.05                 | 22.10                    | 22.08                  |                     |
| 5               | 64QAM      | 1       | 24        | 22.06                 | 22.08                    | 22.08                  | 22                  |
| 5               | 64QAM      | 12      | 0         | 21.26                 | 21.24                    | 21.20                  |                     |
| 5               | 64QAM      | 12      | 7         | 21.31                 | 21.34                    | 21.27                  |                     |
| 5               | 64QAM      | 12      | 13        | 21.29                 | 21.28                    | 21.26                  |                     |
| 5               | 64QAM      | 25      | 0         | 21.29                 | 21.31                    | 21.26                  |                     |



| Band 41_Ant 3   |            |         |           |                            |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|----------------------------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | for IC Power Low Ch / Freq | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 39790                      | 39790               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2510                       | 2508                | 2499.5                     | 2593                   | 2638.5                      | 2690                 |                     |
| 20              | QPSK       | 1       | 0         | 21.40                      | 21.46               | 21.30                      | 21.17                  | 21.22                       | 20.98                | 22                  |
| 20              | QPSK       | 1       | 49        | 21.42                      | 21.46               | 21.47                      | 21.57                  | 21.46                       | 21.37                |                     |
| 20              | QPSK       | 1       | 99        | 21.39                      | 21.40               | 21.45                      | 21.31                  | 21.05                       | 21.27                |                     |
| 20              | QPSK       | 50      | 0         | 21.51                      | 21.52               | 21.41                      | 21.45                  | 21.43                       | 21.28                |                     |
| 20              | QPSK       | 50      | 24        | 21.50                      | 21.51               | 21.51                      | 21.68                  | 21.48                       | 21.39                |                     |
| 20              | QPSK       | 50      | 50        | 21.47                      | 21.47               | 21.48                      | 21.61                  | 21.40                       | 21.47                | 22                  |
| 20              | QPSK       | 100     | 0         | 21.41                      | 21.43               | 21.38                      | 21.55                  | 21.38                       | 21.32                |                     |
| 20              | 16QAM      | 1       | 0         | 21.60                      | 21.64               | 21.55                      | 21.30                  | 21.38                       | 21.11                |                     |
| 20              | 16QAM      | 1       | 49        | 21.50                      | 21.53               | 21.52                      | 21.66                  | 21.61                       | 21.47                |                     |
| 20              | 16QAM      | 1       | 99        | 21.48                      | 21.50               | 21.59                      | 21.42                  | 21.15                       | 21.42                |                     |
| 20              | 16QAM      | 50      | 0         | 21.52                      | 21.55               | 21.41                      | 21.46                  | 21.48                       | 21.30                | 22                  |
| 20              | 16QAM      | 50      | 24        | 21.51                      | 21.54               | 21.53                      | 21.67                  | 21.53                       | 21.44                |                     |
| 20              | 16QAM      | 50      | 50        | 21.48                      | 21.49               | 21.51                      | 21.62                  | 21.45                       | 21.51                |                     |
| 20              | 16QAM      | 100     | 0         | 21.44                      | 21.45               | 21.41                      | 21.57                  | 21.41                       | 21.36                |                     |
| 20              | 64QAM      | 1       | 0         | 21.57                      | 21.58               | 21.51                      | 21.62                  | 21.04                       | 20.81                |                     |
| 20              | 64QAM      | 1       | 49        | 21.26                      | 21.28               | 21.27                      | 21.45                  | 21.30                       | 21.20                | 22                  |
| 20              | 64QAM      | 1       | 99        | 21.25                      | 21.23               | 21.44                      | 21.18                  | 20.94                       | 21.13                |                     |
| 20              | 64QAM      | 50      | 0         | 21.02                      | 21.04               | 20.94                      | 20.99                  | 20.95                       | 20.79                |                     |
| 20              | 64QAM      | 50      | 24        | 21.00                      | 21.03               | 21.06                      | 21.22                  | 21.00                       | 20.93                |                     |
| 20              | 64QAM      | 50      | 50        | 20.98                      | 20.99               | 21.04                      | 21.16                  | 20.93                       | 20.99                |                     |
| 20              | 64QAM      | 100     | 0         | 20.92                      | 20.96               | 20.95                      | 21.10                  | 20.91                       | 20.85                | 21.5                |
| Channel         |            |         |           | 39785                      | 39725               | 40173                      | 40620                  | 41068                       | 41515                |                     |
| Frequency (MHz) |            |         |           | 2507.5                     | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |
| 15              | QPSK       | 1       | 0         | 21.45                      | 21.47               | 21.16                      | 21.34                  | 21.28                       | 21.08                | 22                  |
| 15              | QPSK       | 1       | 37        | 21.42                      | 21.43               | 21.38                      | 21.57                  | 21.41                       | 21.35                |                     |
| 15              | QPSK       | 1       | 74        | 21.40                      | 21.43               | 21.16                      | 21.45                  | 21.22                       | 21.31                |                     |
| 15              | QPSK       | 36      | 0         | 21.53                      | 21.55               | 21.38                      | 21.51                  | 21.47                       | 21.30                |                     |
| 15              | QPSK       | 36      | 20        | 21.54                      | 21.57               | 21.52                      | 21.67                  | 21.58                       | 21.47                |                     |
| 15              | QPSK       | 36      | 39        | 21.49                      | 21.51               | 21.43                      | 21.64                  | 21.46                       | 21.47                | 22                  |
| 15              | QPSK       | 75      | 0         | 21.46                      | 21.49               | 21.43                      | 21.61                  | 21.51                       | 21.35                |                     |
| 15              | 16QAM      | 1       | 0         | 21.61                      | 21.63               | 21.35                      | 21.47                  | 21.54                       | 21.28                |                     |
| 15              | 16QAM      | 1       | 37        | 21.50                      | 21.50               | 21.51                      | 21.66                  | 21.62                       | 21.50                |                     |
| 15              | 16QAM      | 1       | 74        | 21.55                      | 21.56               | 21.43                      | 21.57                  | 21.39                       | 21.50                |                     |
| 15              | 16QAM      | 36      | 0         | 21.48                      | 21.52               | 21.34                      | 21.45                  | 21.45                       | 21.28                | 22                  |
| 15              | 16QAM      | 36      | 20        | 21.50                      | 21.50               | 21.47                      | 21.64                  | 21.55                       | 21.47                |                     |
| 15              | 16QAM      | 36      | 39        | 21.45                      | 21.46               | 21.41                      | 21.61                  | 21.48                       | 21.47                |                     |
| 15              | 16QAM      | 75      | 0         | 21.49                      | 21.51               | 21.47                      | 21.63                  | 21.55                       | 21.38                |                     |
| 15              | 64QAM      | 1       | 0         | 21.34                      | 21.41               | 21.10                      | 21.17                  | 21.24                       | 20.98                |                     |
| 15              | 64QAM      | 1       | 37        | 21.30                      | 21.31               | 21.36                      | 21.46                  | 21.38                       | 21.28                | 22                  |
| 15              | 64QAM      | 1       | 74        | 21.52                      | 21.50               | 21.24                      | 21.32                  | 21.17                       | 21.25                |                     |
| 15              | 64QAM      | 36      | 0         | 21.00                      | 21.04               | 20.92                      | 21.03                  | 20.98                       | 20.82                |                     |
| 15              | 64QAM      | 36      | 20        | 21.03                      | 21.04               | 21.08                      | 21.22                  | 21.10                       | 21.03                |                     |
| 15              | 64QAM      | 36      | 39        | 20.97                      | 21.03               | 20.98                      | 21.20                  | 20.98                       | 20.99                |                     |
| 15              | 64QAM      | 75      | 0         | 20.98                      | 20.98               | 21.00                      | 21.14                  | 21.04                       | 20.87                | 21.5                |
| Channel         |            |         |           | 39740                      | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |
| Frequency (MHz) |            |         |           | 2502                       | 2503                | 2547                       | 2593                   | 2639                        | 2685                 |                     |
| 10              | QPSK       | 1       | 0         | 21.51                      | 21.53               | 21.08                      | 21.26                  | 21.29                       | 21.11                | 22                  |
| 10              | QPSK       | 1       | 25        | 21.36                      | 21.53               | 21.35                      | 21.57                  | 21.43                       | 21.39                |                     |
| 10              | QPSK       | 1       | 49        | 21.47                      | 21.39               | 21.11                      | 21.41                  | 21.18                       | 21.29                |                     |
| 10              | QPSK       | 25      | 0         | 21.48                      | 21.48               | 21.40                      | 21.50                  | 21.39                       | 21.38                |                     |
| 10              | QPSK       | 25      | 12        | 21.62                      | 21.59               | 21.52                      | 21.61                  | 21.55                       | 21.35                |                     |
| 10              | QPSK       | 25      | 25        | 21.43                      | 21.59               | 21.49                      | 21.65                  | 21.40                       | 21.43                | 22                  |
| 10              | QPSK       | 50      | 0         | 21.38                      | 21.49               | 21.50                      | 21.54                  | 21.48                       | 21.28                |                     |
| 10              | 16QAM      | 1       | 0         | 21.63                      | 21.61               | 21.25                      | 21.46                  | 21.63                       | 21.24                |                     |
| 10              | 16QAM      | 1       | 25        | 21.52                      | 21.40               | 21.61                      | 21.65                  | 21.59                       | 21.55                |                     |
| 10              | 16QAM      | 1       | 49        | 21.65                      | 21.46               | 21.52                      | 21.64                  | 21.41                       | 21.43                |                     |
| 10              | 16QAM      | 25      | 0         | 21.52                      | 21.57               | 21.28                      | 21.42                  | 21.40                       | 21.37                | 22                  |
| 10              | 16QAM      | 25      | 12        | 21.60                      | 21.54               | 21.56                      | 21.57                  | 21.51                       | 21.50                |                     |
| 10              | 16QAM      | 25      | 25        | 21.50                      | 21.49               | 21.44                      | 21.64                  | 21.49                       | 21.47                |                     |
| 10              | 16QAM      | 50      | 0         | 21.44                      | 21.41               | 21.52                      | 21.65                  | 21.55                       | 21.32                |                     |
| 10              | 64QAM      | 1       | 0         | 21.26                      | 21.47               | 21.07                      | 21.27                  | 21.24                       | 21.01                |                     |
| 10              | 64QAM      | 1       | 25        | 21.38                      | 21.35               | 21.32                      | 21.54                  | 21.41                       | 21.33                | 22                  |
| 10              | 64QAM      | 1       | 49        | 21.29                      | 21.21               | 21.18                      | 21.26                  | 21.24                       | 21.23                |                     |
| 10              | 64QAM      | 25      | 0         | 21.01                      | 21.11               | 20.89                      | 20.94                  | 21.04                       | 20.78                |                     |
| 10              | 64QAM      | 25      | 12        | 21.07                      | 21.08               | 21.16                      | 21.24                  | 21.14                       | 20.96                |                     |
| 10              | 64QAM      | 25      | 25        | 21.01                      | 20.93               | 20.94                      | 21.25                  | 20.90                       | 21.03                |                     |
| 10              | 64QAM      | 50      | 0         | 20.88                      | 21.07               | 21.03                      | 21.17                  | 20.98                       | 20.86                | 21.5                |
| Channel         |            |         |           | 39715                      | 39675               | 40148                      | 40620                  | 41093                       | 41565                |                     |
| Frequency (MHz) |            |         |           | 2502.5                     | 2498.5              | 2543.8                     | 2593                   | 2640.30                     | 2687.5               |                     |
| 5               | QPSK       | 1       | 0         | 21.30                      | 21.31               | 21.22                      | 21.32                  | 21.25                       | 21.19                | 22                  |
| 5               | QPSK       | 1       | 12        | 21.24                      | 21.22               | 21.18                      | 21.36                  | 21.28                       | 21.21                |                     |
| 5               | QPSK       | 1       | 24        | 21.26                      | 21.22               | 21.25                      | 21.33                  | 21.27                       | 21.14                |                     |
| 5               | QPSK       | 12      | 0         | 21.35                      | 21.37               | 21.30                      | 21.43                  | 21.31                       | 21.32                |                     |
| 5               | QPSK       | 12      | 7         | 21.38                      | 21.39               | 21.37                      | 21.50                  | 21.34                       | 21.33                |                     |
| 5               | QPSK       | 12      | 13        | 21.35                      | 21.40               | 21.37                      | 21.49                  | 21.35                       | 21.29                | 22                  |
| 5               | QPSK       | 25      | 0         | 21.33                      | 21.35               | 21.33                      | 21.48                  | 21.29                       | 21.27                |                     |
| 5               | 16QAM      | 1       | 0         | 21.39                      | 21.39               | 21.31                      | 21.45                  | 21.33                       | 21.32                |                     |
| 5               | 16QAM      | 1       | 12        | 21.44                      | 21.42               | 21.36                      | 21.58                  | 21.48                       | 21.41                |                     |
| 5               | 16QAM      | 1       | 24        | 21.38                      | 21.43               | 21.37                      | 21.53                  | 21.40                       | 21.29                |                     |
| 5               | 16QAM      | 12      | 0         | 21.34                      | 21.37               | 21.30                      | 21.44                  | 21.29                       | 21.27                | 22                  |
| 5               | 16QAM      | 12      | 7         | 21.36                      | 21.37               | 21.35                      | 21.50                  | 21.32                       | 21.31                |                     |
| 5               | 16QAM      | 12      | 13        | 21.30                      | 21.37               | 21.30                      | 21.48                  | 21.33                       | 21.28                |                     |
| 5               | 16QAM      | 25      | 0         | 21.36                      | 21.38               | 21.36                      | 21.53                  | 21.36                       | 21.32                |                     |
| 5               | 64QAM      | 1       | 0         | 21.17                      | 21.18               | 21.14                      | 21.25                  | 21.13                       | 21.10                |                     |
| 5               | 64QAM      | 1       | 12        | 21.13                      | 21.16               | 21.27                      | 21.32                  | 21.25                       | 21.14                | 22                  |
| 5               | 64QAM      | 1       | 24        | 21.16                      | 21.18               | 21.23                      | 21.32                  | 21.23                       | 21.08                |                     |
| 5               | 64QAM      | 12      | 0         | 20.91                      | 20.97               | 20.85                      | 20.97                  | 20.88                       | 20.85                |                     |
| 5               | 64QAM      | 12      | 7         | 20.94                      | 20.96               | 20.93                      | 21.03                  | 20.86                       | 20.84                |                     |
| 5               | 64QAM      | 12      | 13        | 20.88                      | 20.90               | 20.91                      | 21.03                  | 20.92                       | 20.79                |                     |
| 5               | 64QAM      | 25      | 0         | 20.94                      | 20.94               | 20.93                      | 21.02                  | 20.86                       | 20.85                |                     |



| Band 41_Ant 3   |            |         |           |                            |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|----------------------------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | for IC Power Low Ch / Freq | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 38790                      | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2510                       | 2508                | 2499.5                     | 2593                   | 2638.5                      | 2690                 |                     |
| 20              | QPSK       | 1       | 0         | 21.35                      | 21.37               | 21.33                      | 21.09                  | 21.10                       | 20.82                | 22                  |
| 20              | QPSK       | 1       | 49        | 21.26                      | 21.32               | 21.30                      | 21.45                  | 21.32                       | 21.23                |                     |
| 20              | QPSK       | 1       | 99        | 21.27                      | 21.26               | 21.35                      | 21.17                  | 20.92                       | 21.14                |                     |
| 20              | QPSK       | 50      | 0         | 21.50                      | 21.54               | 21.39                      | 21.43                  | 21.41                       | 21.23                |                     |
| 20              | QPSK       | 50      | 24        | 21.50                      | 21.53               | 21.50                      | 21.63                  | 21.48                       | 21.38                | 22                  |
| 20              | QPSK       | 50      | 50        | 21.44                      | 21.46               | 21.47                      | 21.61                  | 21.39                       | 21.43                |                     |
| 20              | QPSK       | 100     | 0         | 21.42                      | 21.44               | 21.39                      | 21.56                  | 21.38                       | 21.29                |                     |
| 20              | 16QAM      | 1       | 0         | 21.73                      | 21.75               | 21.71                      | 21.41                  | 21.51                       | 21.22                |                     |
| 20              | 16QAM      | 1       | 49        | 21.62                      | 21.64               | 21.72                      | 21.79                  | 21.76                       | 21.62                | 22                  |
| 20              | 16QAM      | 1       | 99        | 21.66                      | 21.65               | 21.76                      | 21.52                  | 21.34                       | 21.56                |                     |
| 20              | 16QAM      | 50      | 0         | 21.51                      | 21.55               | 21.38                      | 21.46                  | 21.46                       | 21.28                |                     |
| 20              | 16QAM      | 50      | 24        | 21.51                      | 21.53               | 21.49                      | 21.68                  | 21.51                       | 21.43                |                     |
| 20              | 16QAM      | 50      | 50        | 21.49                      | 21.48               | 21.51                      | 21.61                  | 21.44                       | 21.51                | 22                  |
| 20              | 16QAM      | 100     | 0         | 21.44                      | 21.43               | 21.39                      | 21.57                  | 21.42                       | 21.33                |                     |
| 20              | 64QAM      | 1       | 0         | 21.62                      | 21.61               | 21.56                      | 21.23                  | 21.32                       | 21.03                |                     |
| 20              | 64QAM      | 1       | 49        | 21.50                      | 21.54               | 21.51                      | 21.68                  | 21.62                       | 21.43                |                     |
| 20              | 64QAM      | 1       | 99        | 21.54                      | 21.49               | 21.68                      | 21.40                  | 21.15                       | 21.38                | 22                  |
| 20              | 64QAM      | 50      | 0         | 21.55                      | 21.55               | 21.42                      | 21.47                  | 21.43                       | 21.27                |                     |
| 20              | 64QAM      | 50      | 24        | 21.54                      | 21.57               | 21.53                      | 21.70                  | 21.48                       | 21.43                |                     |
| 20              | 64QAM      | 50      | 50        | 21.51                      | 21.54               | 21.51                      | 21.62                  | 21.42                       | 21.47                |                     |
| 20              | 64QAM      | 100     | 0         | 21.47                      | 21.47               | 21.44                      | 21.59                  | 21.39                       | 21.33                |                     |
| Channel         |            |         |           | 38765                      | 39725               | 40173                      | 40620                  | 41068                       | 41515                |                     |
| Frequency (MHz) |            |         |           | 2507.5                     | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               | Line-up limit (dBm) |
| 15              | QPSK       | 1       | 0         | 21.39                      | 21.40               | 21.09                      | 21.25                  | 21.24                       | 21.00                | 22                  |
| 15              | QPSK       | 1       | 37        | 21.32                      | 21.37               | 21.28                      | 21.46                  | 21.34                       | 21.28                |                     |
| 15              | QPSK       | 1       | 74        | 21.33                      | 21.33               | 21.10                      | 21.37                  | 21.10                       | 21.25                |                     |
| 15              | QPSK       | 36      | 0         | 21.48                      | 21.55               | 21.34                      | 21.45                  | 21.42                       | 21.26                |                     |
| 15              | QPSK       | 36      | 20        | 21.49                      | 21.50               | 21.49                      | 21.63                  | 21.52                       | 21.48                | 22                  |
| 15              | QPSK       | 36      | 39        | 21.46                      | 21.48               | 21.41                      | 21.61                  | 21.42                       | 21.42                |                     |
| 15              | QPSK       | 75      | 0         | 21.45                      | 21.45               | 21.43                      | 21.57                  | 21.45                       | 21.30                |                     |
| 15              | 16QAM      | 1       | 0         | 21.64                      | 21.66               | 21.46                      | 21.54                  | 21.62                       | 21.38                |                     |
| 15              | 16QAM      | 1       | 37        | 21.62                      | 21.67               | 21.71                      | 21.78                  | 21.74                       | 21.62                | 22                  |
| 15              | 16QAM      | 1       | 74        | 21.66                      | 21.65               | 21.51                      | 21.70                  | 21.52                       | 21.58                |                     |
| 15              | 16QAM      | 36      | 0         | 21.46                      | 21.50               | 21.31                      | 21.42                  | 21.44                       | 21.26                |                     |
| 15              | 16QAM      | 36      | 20        | 21.46                      | 21.49               | 21.44                      | 21.61                  | 21.55                       | 21.45                |                     |
| 15              | 16QAM      | 36      | 39        | 21.45                      | 21.40               | 21.40                      | 21.59                  | 21.43                       | 21.45                | 22                  |
| 15              | 16QAM      | 75      | 0         | 21.48                      | 21.49               | 21.42                      | 21.56                  | 21.49                       | 21.34                |                     |
| 15              | 64QAM      | 1       | 0         | 21.57                      | 21.59               | 21.35                      | 21.39                  | 21.41                       | 21.17                |                     |
| 15              | 64QAM      | 1       | 37        | 21.55                      | 21.60               | 21.63                      | 21.64                  | 21.58                       | 21.50                |                     |
| 15              | 64QAM      | 1       | 74        | 21.51                      | 21.52               | 21.64                      | 21.51                  | 21.34                       | 21.46                | 22                  |
| 15              | 64QAM      | 36      | 0         | 21.53                      | 21.53               | 21.36                      | 21.47                  | 21.44                       | 21.29                |                     |
| 15              | 64QAM      | 36      | 20        | 21.53                      | 21.55               | 21.50                      | 21.67                  | 21.56                       | 21.46                |                     |
| 15              | 64QAM      | 36      | 39        | 21.52                      | 21.53               | 21.42                      | 21.62                  | 21.42                       | 21.44                |                     |
| 15              | 64QAM      | 75      | 0         | 21.48                      | 21.51               | 21.43                      | 21.60                  | 21.48                       | 21.32                | Line-up limit (dBm) |
| Channel         |            |         |           | 38740                      | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |
| Frequency (MHz) |            |         |           | 2502                       | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |
| 10              | QPSK       | 1       | 0         | 21.19                      | 21.21               | 20.87                      | 20.97                  | 20.89                       | 20.81                | 22                  |
| 10              | QPSK       | 1       | 25        | 21.07                      | 21.10               | 21.10                      | 21.22                  | 21.15                       | 21.03                |                     |
| 10              | QPSK       | 1       | 49        | 21.17                      | 21.15               | 20.89                      | 20.99                  | 20.98                       | 20.83                |                     |
| 10              | QPSK       | 25      | 0         | 21.29                      | 21.30               | 21.15                      | 21.30                  | 21.20                       | 21.13                |                     |
| 10              | QPSK       | 25      | 12        | 21.29                      | 21.30               | 21.33                      | 21.46                  | 21.29                       | 21.29                | 22                  |
| 10              | QPSK       | 25      | 25        | 21.27                      | 21.30               | 21.21                      | 21.37                  | 21.25                       | 21.17                |                     |
| 10              | QPSK       | 50      | 0         | 21.22                      | 21.27               | 21.24                      | 21.36                  | 21.22                       | 21.19                |                     |
| 10              | 16QAM      | 1       | 0         | 21.51                      | 21.54               | 21.18                      | 21.39                  | 21.32                       | 21.19                |                     |
| 10              | 16QAM      | 1       | 25        | 21.41                      | 21.45               | 21.48                      | 21.62                  | 21.54                       | 21.42                | 22                  |
| 10              | 16QAM      | 1       | 49        | 21.46                      | 21.47               | 21.29                      | 21.37                  | 21.27                       | 21.17                |                     |
| 10              | 16QAM      | 25      | 0         | 21.31                      | 21.35               | 21.31                      | 21.34                  | 21.25                       | 21.17                |                     |
| 10              | 16QAM      | 25      | 12        | 21.35                      | 21.38               | 21.37                      | 21.52                  | 21.34                       | 21.35                |                     |
| 10              | 16QAM      | 25      | 25        | 21.29                      | 21.31               | 21.25                      | 21.42                  | 21.32                       | 21.20                | 22                  |
| 10              | 16QAM      | 50      | 0         | 21.26                      | 21.30               | 21.26                      | 21.45                  | 21.28                       | 21.25                |                     |
| 10              | 64QAM      | 1       | 0         | 21.39                      | 21.45               | 21.11                      | 21.23                  | 21.16                       | 21.08                |                     |
| 10              | 64QAM      | 1       | 25        | 21.43                      | 21.41               | 21.47                      | 21.55                  | 21.50                       | 21.35                |                     |
| 10              | 64QAM      | 1       | 49        | 21.38                      | 21.38               | 21.22                      | 21.29                  | 21.19                       | 21.10                | 22                  |
| 10              | 64QAM      | 25      | 0         | 21.37                      | 21.40               | 21.28                      | 21.37                  | 21.30                       | 21.21                |                     |
| 10              | 64QAM      | 25      | 12        | 21.37                      | 21.44               | 21.42                      | 21.54                  | 21.38                       | 21.37                |                     |
| 10              | 64QAM      | 25      | 25        | 21.36                      | 21.40               | 21.31                      | 21.46                  | 21.36                       | 21.26                |                     |
| 10              | 64QAM      | 50      | 0         | 21.25                      | 21.30               | 21.28                      | 21.42                  | 21.24                       | 21.24                | Line-up limit (dBm) |
| Channel         |            |         |           | 38715                      | 38675               | 40148                      | 40620                  | 41093                       | 41565                |                     |
| Frequency (MHz) |            |         |           | 2502.5                     | 2498.5              | 2545.8                     | 2593                   | 2640.30                     | 2687.5               |                     |
| 5               | QPSK       | 1       | 0         | 21.19                      | 21.22               | 21.12                      | 21.20                  | 21.10                       | 21.06                | 22                  |
| 5               | QPSK       | 1       | 12        | 21.15                      | 21.14               | 21.12                      | 21.26                  | 21.18                       | 21.10                |                     |
| 5               | QPSK       | 1       | 24        | 21.14                      | 21.15               | 21.16                      | 21.24                  | 21.14                       | 21.03                |                     |
| 5               | QPSK       | 12      | 0         | 21.33                      | 21.37               | 21.26                      | 21.40                  | 21.28                       | 21.28                |                     |
| 5               | QPSK       | 12      | 7         | 21.36                      | 21.38               | 21.34                      | 21.48                  | 21.31                       | 21.26                | 22                  |
| 5               | QPSK       | 12      | 13        | 21.34                      | 21.33               | 21.33                      | 21.46                  | 21.34                       | 21.23                |                     |
| 5               | QPSK       | 25      | 0         | 21.32                      | 21.32               | 21.27                      | 21.44                  | 21.24                       | 21.24                |                     |
| 5               | 16QAM      | 1       | 0         | 21.48                      | 21.49               | 21.31                      | 21.54                  | 21.39                       | 21.40                |                     |
| 5               | 16QAM      | 1       | 12        | 21.47                      | 21.47               | 21.33                      | 21.60                  | 21.45                       | 21.39                | 22                  |
| 5               | 16QAM      | 1       | 24        | 21.47                      | 21.51               | 21.37                      | 21.60                  | 21.44                       | 21.37                |                     |
| 5               | 16QAM      | 12      | 0         | 21.36                      | 21.37               | 21.32                      | 21.44                  | 21.34                       | 21.33                |                     |
| 5               | 16QAM      | 12      | 7         | 21.37                      | 21.43               | 21.35                      | 21.51                  | 21.35                       | 21.32                |                     |
| 5               | 16QAM      | 12      | 13        | 21.35                      | 21.39               | 21.33                      | 21.49                  | 21.38                       | 21.27                | 22                  |
| 5               | 16QAM      | 25      | 0         | 21.36                      | 21.38               | 21.35                      | 21.53                  | 21.35                       | 21.33                |                     |
| 5               | 64QAM      | 1       | 0         | 21.38                      | 21.38               | 21.30                      | 21.41                  | 21.29                       | 21.27                |                     |
| 5               | 64QAM      | 1       | 12        | 21.38                      | 21.39               | 21.39                      | 21.48                  | 21.37                       | 21.31                |                     |
| 5               | 64QAM      | 1       | 24        | 21.36                      | 21.39               | 21.35                      | 21.49                  | 21.37                       | 21.29                | 22                  |
| 5               | 64QAM      | 12      | 0         | 21.39                      | 21.40               | 21.31                      | 21.44                  | 21.34                       | 21.32                |                     |
| 5               | 64QAM      | 12      | 7         | 21.40                      | 21.42               | 21.39                      | 21.51                  | 21.39                       | 21.37                |                     |
| 5               | 64QAM      | 12      | 13        | 21.35                      | 21.40               | 21.37                      | 21.50                  | 21.38                       | 21.30                |                     |
| 5               | 64QAM      | 25      | 0         | 21.36                      | 21.38               | 21.36                      | 21.49                  | 21.34                       | 21.31                |                     |

| Band 38_Ant 3   |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 37650                 | 38000                    | 38150                  | 21                  |
| Frequency (MHz) |            |         |           | 2560                  | 2595                     | 2630                   |                     |
| 20              | QPSK       | 1       | 0         | 20.36                 | 20.41                    | 20.39                  | 21                  |
| 20              | QPSK       | 1       | 49        | 20.43                 | 20.47                    | 20.43                  |                     |
| 20              | QPSK       | 1       | 99        | 20.46                 | 20.45                    | 20.41                  |                     |
| 20              | QPSK       | 50      | 0         | 20.32                 | 20.30                    | 20.28                  |                     |
| 20              | QPSK       | 50      | 24        | 20.49                 | 20.49                    | 20.40                  |                     |
| 20              | QPSK       | 50      | 50        | 20.43                 | 20.41                    | 20.37                  |                     |
| 20              | QPSK       | 100     | 0         | 20.41                 | 20.39                    | 20.28                  | 21                  |
| 20              | 16QAM      | 1       | 0         | 20.56                 | 20.55                    | 20.56                  |                     |
| 20              | 16QAM      | 1       | 49        | 20.57                 | 20.55                    | 20.56                  |                     |
| 20              | 16QAM      | 1       | 99        | 20.57                 | 20.58                    | 20.59                  |                     |
| 20              | 16QAM      | 50      | 0         | 20.33                 | 20.32                    | 20.30                  |                     |
| 20              | 16QAM      | 50      | 24        | 20.54                 | 20.52                    | 20.41                  |                     |
| 20              | 16QAM      | 50      | 50        | 20.46                 | 20.45                    | 20.40                  | 21                  |
| 20              | 16QAM      | 100     | 0         | 20.43                 | 20.42                    | 20.31                  |                     |
| 20              | 64QAM      | 1       | 0         | 20.29                 | 20.29                    | 20.28                  |                     |
| 20              | 64QAM      | 1       | 49        | 20.32                 | 20.29                    | 20.27                  |                     |
| 20              | 64QAM      | 1       | 99        | 20.34                 | 20.37                    | 20.40                  |                     |
| 20              | 64QAM      | 50      | 0         | 20.34                 | 20.34                    | 20.33                  |                     |
| 20              | 64QAM      | 50      | 24        | 20.53                 | 20.54                    | 20.43                  | 21                  |
| 20              | 64QAM      | 50      | 50        | 20.49                 | 20.47                    | 20.42                  |                     |
| 20              | 64QAM      | 100     | 0         | 20.44                 | 20.45                    | 20.33                  |                     |
| Channel         |            |         |           | 37625                 | 38000                    | 38175                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |
| 15              | QPSK       | 1       | 0         | 20.34                 | 20.36                    | 20.32                  | 21                  |
| 15              | QPSK       | 1       | 37        | 20.38                 | 20.40                    | 20.33                  |                     |
| 15              | QPSK       | 1       | 74        | 20.41                 | 20.41                    | 20.34                  |                     |
| 15              | QPSK       | 36      | 0         | 20.35                 | 20.34                    | 20.30                  |                     |
| 15              | QPSK       | 36      | 20        | 20.53                 | 20.49                    | 20.38                  |                     |
| 15              | QPSK       | 36      | 39        | 20.44                 | 20.41                    | 20.38                  |                     |
| 15              | QPSK       | 75      | 0         | 20.43                 | 20.42                    | 20.31                  | 21                  |
| 15              | 16QAM      | 1       | 0         | 20.53                 | 20.54                    | 20.49                  |                     |
| 15              | 16QAM      | 1       | 37        | 20.49                 | 20.48                    | 20.49                  |                     |
| 15              | 16QAM      | 1       | 74        | 20.58                 | 20.57                    | 20.54                  |                     |
| 15              | 16QAM      | 36      | 0         | 20.30                 | 20.29                    | 20.27                  |                     |
| 15              | 16QAM      | 36      | 20        | 20.49                 | 20.47                    | 20.36                  |                     |
| 15              | 16QAM      | 36      | 39        | 20.42                 | 20.39                    | 20.36                  | 21                  |
| 15              | 16QAM      | 75      | 0         | 20.47                 | 20.44                    | 20.33                  |                     |
| 15              | 64QAM      | 1       | 0         | 20.25                 | 20.26                    | 20.16                  |                     |
| 15              | 64QAM      | 1       | 37        | 20.31                 | 20.29                    | 20.29                  |                     |
| 15              | 64QAM      | 1       | 74        | 20.31                 | 20.30                    | 20.34                  |                     |
| 15              | 64QAM      | 36      | 0         | 20.38                 | 20.36                    | 20.33                  | 21                  |
| 15              | 64QAM      | 36      | 20        | 20.56                 | 20.54                    | 20.41                  |                     |
| 15              | 64QAM      | 36      | 39        | 20.46                 | 20.47                    | 20.43                  |                     |
| 15              | 64QAM      | 75      | 0         | 20.48                 | 20.45                    | 20.33                  |                     |
| Channel         |            |         |           | 37600                 | 38000                    | 38200                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |
| 10              | QPSK       | 1       | 0         | 20.41                 | 20.34                    | 20.42                  | 21                  |
| 10              | QPSK       | 1       | 25        | 20.31                 | 20.43                    | 20.26                  |                     |
| 10              | QPSK       | 1       | 49        | 20.37                 | 20.43                    | 20.32                  |                     |
| 10              | QPSK       | 25      | 0         | 20.31                 | 20.24                    | 20.28                  |                     |
| 10              | QPSK       | 25      | 12        | 20.50                 | 20.43                    | 20.41                  |                     |
| 10              | QPSK       | 25      | 25        | 20.47                 | 20.37                    | 20.35                  |                     |
| 10              | QPSK       | 50      | 0         | 20.36                 | 20.42                    | 20.30                  | 21                  |
| 10              | 16QAM      | 1       | 0         | 20.51                 | 20.45                    | 20.40                  |                     |
| 10              | 16QAM      | 1       | 25        | 20.53                 | 20.43                    | 20.47                  |                     |
| 10              | 16QAM      | 1       | 49        | 20.52                 | 20.53                    | 20.51                  |                     |
| 10              | 16QAM      | 25      | 0         | 20.32                 | 20.37                    | 20.17                  |                     |
| 10              | 16QAM      | 25      | 12        | 20.47                 | 20.42                    | 20.33                  |                     |
| 10              | 16QAM      | 25      | 25        | 20.34                 | 20.49                    | 20.37                  | 21                  |
| 10              | 16QAM      | 50      | 0         | 20.56                 | 20.54                    | 20.40                  |                     |
| 10              | 64QAM      | 1       | 0         | 20.17                 | 20.21                    | 20.16                  |                     |
| 10              | 64QAM      | 1       | 25        | 20.25                 | 20.39                    | 20.30                  |                     |
| 10              | 64QAM      | 1       | 49        | 20.23                 | 20.27                    | 20.39                  |                     |
| 10              | 64QAM      | 25      | 0         | 20.30                 | 20.30                    | 20.28                  |                     |
| 10              | 64QAM      | 25      | 12        | 20.56                 | 20.44                    | 20.57                  | 21                  |
| 10              | 64QAM      | 25      | 25        | 20.45                 | 20.44                    | 20.37                  |                     |
| 10              | 64QAM      | 50      | 0         | 20.46                 | 20.49                    | 20.33                  |                     |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |
| 5               | QPSK       | 1       | 0         | 20.35                 | 20.37                    | 20.27                  | 21                  |
| 5               | QPSK       | 1       | 12        | 20.41                 | 20.47                    | 20.30                  |                     |
| 5               | QPSK       | 1       | 24        | 20.47                 | 20.44                    | 20.39                  |                     |
| 5               | QPSK       | 12      | 0         | 20.39                 | 20.34                    | 20.32                  |                     |
| 5               | QPSK       | 12      | 7         | 20.54                 | 20.49                    | 20.35                  |                     |
| 5               | QPSK       | 12      | 13        | 20.46                 | 20.49                    | 20.38                  |                     |
| 5               | QPSK       | 25      | 0         | 20.30                 | 20.46                    | 20.40                  | 21                  |
| 5               | 16QAM      | 1       | 0         | 20.55                 | 20.50                    | 20.57                  |                     |
| 5               | 16QAM      | 1       | 12        | 20.55                 | 20.57                    | 20.44                  |                     |
| 5               | 16QAM      | 1       | 24        | 20.53                 | 20.52                    | 20.55                  |                     |
| 5               | 16QAM      | 12      | 0         | 20.30                 | 20.21                    | 20.34                  |                     |
| 5               | 16QAM      | 12      | 7         | 20.54                 | 20.37                    | 20.44                  |                     |
| 5               | 16QAM      | 12      | 13        | 20.41                 | 20.38                    | 20.37                  | 21                  |
| 5               | 16QAM      | 25      | 0         | 20.56                 | 20.51                    | 20.33                  |                     |
| 5               | 64QAM      | 1       | 0         | 20.35                 | 20.13                    | 20.13                  |                     |
| 5               | 64QAM      | 1       | 12        | 20.22                 | 20.25                    | 20.26                  |                     |
| 5               | 64QAM      | 1       | 24        | 20.37                 | 20.35                    | 20.37                  |                     |
| 5               | 64QAM      | 12      | 0         | 20.37                 | 20.40                    | 20.24                  |                     |
| 5               | 64QAM      | 12      | 7         | 20.52                 | 20.57                    | 20.38                  | 21                  |
| 5               | 64QAM      | 12      | 13        | 20.58                 | 20.45                    | 20.44                  |                     |
| 5               | 64QAM      | 25      | 0         | 20.55                 | 20.38                    | 20.43                  | 21                  |





| Band 41_Ant 3   |            |         |           |                              |                       |                              |                          |                               |                        |                     |
|-----------------|------------|---------|-----------|------------------------------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | for IC Power Low Ch. / Freq. | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 38790                        | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2510                         | 2508                  | 2549.5                       | 2593                     | 2634.5                        | 2676                   |                     |
| 20              | QPSK       | 1       | 0         | 19.91                        | 19.92                 | 19.91                        | 19.88                    | 19.73                         | 19.49                  | 20.5                |
| 20              | QPSK       | 1       | 49        | 19.95                        | 19.94                 | 19.97                        | 20.08                    | 19.99                         | 19.90                  |                     |
| 20              | QPSK       | 1       | 99        | 19.89                        | 19.88                 | 19.97                        | 19.81                    | 19.55                         | 19.79                  |                     |
| 20              | QPSK       | 50      | 0         | 20.00                        | 20.02                 | 19.91                        | 19.96                    | 19.95                         | 19.78                  |                     |
| 20              | QPSK       | 50      | 24        | 20.00                        | 20.02                 | 20.00                        | 20.17                    | 20.00                         | 19.92                  | 20.5                |
| 20              | QPSK       | 50      | 50        | 19.96                        | 19.97                 | 20.01                        | 20.10                    | 19.93                         | 19.98                  |                     |
| 20              | QPSK       | 100     | 0         | 19.91                        | 19.93                 | 19.90                        | 20.07                    | 19.88                         | 19.84                  |                     |
| 20              | 16QAM      | 1       | 0         | 20.07                        | 20.10                 | 20.08                        | 19.81                    | 19.86                         | 19.62                  |                     |
| 20              | 16QAM      | 1       | 49        | 19.99                        | 20.02                 | 20.04                        | 20.14                    | 20.12                         | 19.96                  | 20.5                |
| 20              | 16QAM      | 1       | 99        | 20.00                        | 20.00                 | 20.12                        | 19.88                    | 19.70                         | 19.92                  |                     |
| 20              | 16QAM      | 50      | 0         | 20.02                        | 20.07                 | 19.95                        | 20.20                    | 19.97                         | 19.92                  |                     |
| 20              | 16QAM      | 50      | 24        | 20.05                        | 20.04                 | 20.03                        | 20.20                    | 20.03                         | 19.96                  |                     |
| 20              | 16QAM      | 50      | 50        | 20.00                        | 19.99                 | 20.02                        | 20.14                    | 19.95                         | 20.01                  | 20.5                |
| 20              | 16QAM      | 100     | 0         | 19.96                        | 19.97                 | 19.93                        | 20.10                    | 19.93                         | 19.87                  |                     |
| 20              | 64QAM      | 1       | 0         | 19.88                        | 19.93                 | 19.81                        | 19.49                    | 19.55                         | 19.30                  |                     |
| 20              | 64QAM      | 1       | 49        | 19.77                        | 19.78                 | 19.70                        | 19.84                    | 19.89                         | 19.73                  |                     |
| 20              | 64QAM      | 1       | 99        | 19.76                        | 19.73                 | 20.03                        | 19.64                    | 19.47                         | 19.68                  | 20.5                |
| 20              | 64QAM      | 50      | 0         | 20.03                        | 20.06                 | 19.93                        | 19.88                    | 19.97                         | 19.78                  |                     |
| 20              | 64QAM      | 50      | 24        | 20.05                        | 20.07                 | 20.03                        | 20.19                    | 20.02                         | 19.94                  |                     |
| 20              | 64QAM      | 50      | 50        | 20.00                        | 20.02                 | 20.01                        | 20.14                    | 19.94                         | 19.99                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.95                        | 19.98                 | 19.93                        | 20.11                    | 19.92                         | 19.85                  |                     |
| Channel         |            |         |           | 38765                        | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Line-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5                       | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 19.89                        | 19.95                 | 19.61                        | 19.78                    | 19.80                         | 19.56                  | 20.5                |
| 15              | QPSK       | 1       | 37        | 19.87                        | 19.91                 | 19.76                        | 19.89                    | 19.90                         | 19.83                  |                     |
| 15              | QPSK       | 1       | 74        | 19.87                        | 19.86                 | 19.58                        | 19.82                    | 19.68                         | 19.81                  |                     |
| 15              | QPSK       | 36      | 0         | 19.99                        | 20.04                 | 19.84                        | 19.98                    | 19.95                         | 19.81                  |                     |
| 15              | QPSK       | 36      | 20        | 19.99                        | 20.01                 | 20.01                        | 20.15                    | 20.05                         | 19.99                  | 20.5                |
| 15              | QPSK       | 36      | 39        | 19.95                        | 19.96                 | 19.91                        | 20.11                    | 19.95                         | 19.97                  |                     |
| 15              | QPSK       | 75      | 0         | 19.84                        | 19.98                 | 19.91                        | 20.09                    | 19.98                         | 19.86                  |                     |
| 15              | 16QAM      | 1       | 0         | 20.06                        | 20.13                 | 19.91                        | 19.82                    | 19.89                         | 19.75                  |                     |
| 15              | 16QAM      | 1       | 37        | 19.97                        | 19.96                 | 20.08                        | 20.15                    | 20.12                         | 20.00                  | 20.5                |
| 15              | 16QAM      | 1       | 74        | 20.00                        | 20.01                 | 19.94                        | 20.02                    | 19.89                         | 20.03                  |                     |
| 15              | 16QAM      | 36      | 0         | 19.98                        | 20.02                 | 19.83                        | 19.95                    | 19.94                         | 19.76                  |                     |
| 15              | 16QAM      | 36      | 20        | 19.96                        | 20.00                 | 19.86                        | 20.12                    | 20.02                         | 19.95                  |                     |
| 15              | 16QAM      | 36      | 39        | 19.94                        | 19.96                 | 19.90                        | 20.10                    | 19.93                         | 19.95                  | 20.5                |
| 15              | 16QAM      | 75      | 0         | 19.97                        | 19.99                 | 19.95                        | 20.12                    | 20.03                         | 19.90                  |                     |
| 15              | 64QAM      | 1       | 0         | 19.85                        | 19.87                 | 19.56                        | 19.66                    | 19.70                         | 19.48                  |                     |
| 15              | 64QAM      | 1       | 37        | 19.78                        | 19.80                 | 19.85                        | 19.92                    | 19.87                         | 19.75                  |                     |
| 15              | 64QAM      | 1       | 74        | 19.75                        | 19.76                 | 19.74                        | 19.81                    | 19.82                         | 19.77                  | 20.5                |
| 15              | 64QAM      | 36      | 0         | 20.02                        | 20.05                 | 19.85                        | 19.89                    | 19.96                         | 19.81                  |                     |
| 15              | 64QAM      | 36      | 20        | 20.03                        | 20.05                 | 19.99                        | 20.18                    | 20.06                         | 20.01                  |                     |
| 15              | 64QAM      | 36      | 39        | 20.01                        | 20.02                 | 19.91                        | 20.14                    | 19.96                         | 19.97                  |                     |
| 15              | 64QAM      | 75      | 0         | 19.99                        | 20.02                 | 19.94                        | 20.10                    | 20.00                         | 19.85                  |                     |
| Channel         |            |         |           | 38740                        | 39700                 | 40160                        | 40620                    | 41080                         | 41540                  | Line-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505                         | 2503                  | 2547                         | 2593                     | 2639                          | 2685                   |                     |
| 10              | QPSK       | 1       | 0         | 19.81                        | 20.04                 | 19.67                        | 19.88                    | 19.75                         | 19.58                  | 20.5                |
| 10              | QPSK       | 1       | 25        | 19.82                        | 19.94                 | 19.70                        | 20.01                    | 19.93                         | 19.84                  |                     |
| 10              | QPSK       | 1       | 49        | 19.81                        | 19.84                 | 19.54                        | 19.84                    | 19.72                         | 19.90                  |                     |
| 10              | QPSK       | 25      | 0         | 19.91                        | 20.02                 | 19.80                        | 19.93                    | 20.05                         | 19.75                  |                     |
| 10              | QPSK       | 25      | 12        | 19.95                        | 20.04                 | 19.89                        | 20.20                    | 19.97                         | 19.91                  | 20.5                |
| 10              | QPSK       | 25      | 25        | 19.99                        | 19.94                 | 19.84                        | 20.04                    | 19.92                         | 19.89                  |                     |
| 10              | QPSK       | 50      | 0         | 19.89                        | 20.08                 | 19.93                        | 20.03                    | 19.99                         | 19.87                  |                     |
| 10              | 16QAM      | 1       | 0         | 20.07                        | 20.07                 | 19.86                        | 19.87                    | 20.05                         | 19.77                  |                     |
| 10              | 16QAM      | 1       | 25        | 19.96                        | 19.96                 | 20.00                        | 20.07                    | 20.11                         | 20.03                  | 20.5                |
| 10              | 16QAM      | 1       | 49        | 19.92                        | 20.07                 | 19.93                        | 20.05                    | 19.94                         | 20.09                  |                     |
| 10              | 16QAM      | 25      | 0         | 20.02                        | 20.05                 | 19.88                        | 19.92                    | 19.99                         | 19.83                  |                     |
| 10              | 16QAM      | 25      | 12        | 19.99                        | 19.92                 | 20.01                        | 20.07                    | 19.97                         | 19.93                  |                     |
| 10              | 16QAM      | 25      | 25        | 19.96                        | 19.95                 | 19.97                        | 20.12                    | 19.87                         | 20.04                  | 20.5                |
| 10              | 16QAM      | 50      | 0         | 19.90                        | 20.04                 | 20.05                        | 20.19                    | 20.03                         | 19.99                  |                     |
| 10              | 64QAM      | 1       | 0         | 19.81                        | 19.88                 | 19.52                        | 19.65                    | 19.71                         | 19.42                  |                     |
| 10              | 64QAM      | 1       | 25        | 19.76                        | 19.89                 | 19.92                        | 19.96                    | 19.95                         | 19.83                  |                     |
| 10              | 64QAM      | 1       | 49        | 19.82                        | 19.67                 | 19.70                        | 19.89                    | 19.58                         | 19.81                  | 20.5                |
| 10              | 64QAM      | 25      | 0         | 19.94                        | 20.03                 | 19.75                        | 20.04                    | 19.96                         | 19.86                  |                     |
| 10              | 64QAM      | 25      | 12        | 20.12                        | 20.12                 | 20.06                        | 20.19                    | 20.15                         | 19.95                  |                     |
| 10              | 64QAM      | 25      | 25        | 19.92                        | 19.96                 | 19.99                        | 20.10                    | 19.90                         | 19.91                  |                     |
| 10              | 64QAM      | 50      | 0         | 20.05                        | 19.92                 | 19.99                        | 20.00                    | 20.04                         | 19.87                  |                     |
| Channel         |            |         |           | 38715                        | 38675                 | 40148                        | 40620                    | 41093                         | 41565                  | Line-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5                       | 2498.5                | 2543.8                       | 2593                     | 2640.30                       | 2687.5                 |                     |
| 5               | QPSK       | 1       | 0         | 19.84                        | 19.86                 | 19.66                        | 19.74                    | 19.67                         | 19.46                  | 20.5                |
| 5               | QPSK       | 1       | 12        | 19.91                        | 19.87                 | 19.75                        | 20.03                    | 19.94                         | 19.86                  |                     |
| 5               | QPSK       | 1       | 24        | 19.78                        | 19.87                 | 19.49                        | 19.95                    | 19.71                         | 19.87                  |                     |
| 5               | QPSK       | 12      | 0         | 19.91                        | 20.02                 | 19.67                        | 19.96                    | 20.04                         | 19.90                  |                     |
| 5               | QPSK       | 12      | 7         | 19.94                        | 20.05                 | 20.05                        | 20.12                    | 20.03                         | 20.04                  | 20.5                |
| 5               | QPSK       | 12      | 13        | 19.87                        | 20.06                 | 19.63                        | 20.11                    | 19.91                         | 19.97                  |                     |
| 5               | QPSK       | 25      | 0         | 20.04                        | 19.94                 | 19.95                        | 20.15                    | 19.94                         | 19.83                  |                     |
| 5               | 16QAM      | 1       | 0         | 20.16                        | 20.12                 | 19.97                        | 19.88                    | 19.94                         | 19.67                  |                     |
| 5               | 16QAM      | 1       | 12        | 19.89                        | 20.01                 | 20.00                        | 20.12                    | 20.10                         | 20.00                  | 20.5                |
| 5               | 16QAM      | 1       | 24        | 20.04                        | 20.02                 | 20.00                        | 20.03                    | 19.81                         | 19.98                  |                     |
| 5               | 16QAM      | 12      | 0         | 20.06                        | 19.95                 | 19.69                        | 19.97                    | 20.01                         | 19.84                  |                     |
| 5               | 16QAM      | 12      | 7         | 19.94                        | 20.03                 | 19.94                        | 20.14                    | 19.92                         | 19.98                  |                     |
| 5               | 16QAM      | 12      | 13        | 19.97                        | 20.06                 | 19.92                        | 20.07                    | 20.00                         | 19.88                  | 20.5                |
| 5               | 16QAM      | 25      | 0         | 19.94                        | 19.96                 | 19.95                        | 20.19                    | 19.97                         | 19.95                  |                     |
| 5               | 64QAM      | 1       | 0         | 19.85                        | 19.92                 | 19.66                        | 19.71                    | 19.70                         | 19.52                  |                     |
| 5               | 64QAM      | 1       | 12        | 19.81                        | 19.78                 | 19.77                        | 19.84                    | 19.94                         | 19.70                  |                     |
| 5               | 64QAM      | 1       | 24        | 19.70                        | 19.74                 | 19.69                        | 19.72                    | 19.64                         | 19.75                  | 20.5                |
| 5               | 64QAM      | 12      | 0         | 20.02                        | 19.95                 | 19.79                        | 20.02                    | 20.06                         | 19.74                  |                     |
| 5               | 64QAM      | 12      | 7         | 20.08                        | 20.11                 | 19.92                        | 20.15                    | 20.03                         | 19.92                  |                     |
| 5               | 64QAM      | 12      | 13        | 20.03                        | 20.09                 | 19.86                        | 20.05                    | 19.95                         | 20.07                  |                     |
| 5               | 64QAM      | 25      | 0         | 19.91                        | 20.06                 | 19.91                        | 20.12                    | 19.91                         | 19.76                  |                     |



| Band 41_Ant 3   |            |         |           |                              |                       |                              |                          |                               |                        |                     |
|-----------------|------------|---------|-----------|------------------------------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | for IC Power Low Ch. / Freq. | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 38790                        | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2510                         | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 19.84                        | 19.87                 | 19.83                        | 19.80                    | 19.83                         | 19.86                  | 20.5                |
| 20              | QPSK       | 1       | 49        | 19.76                        | 19.80                 | 19.87                        | 19.95                    | 19.87                         | 19.77                  |                     |
| 20              | QPSK       | 1       | 99        | 19.81                        | 19.79                 | 19.89                        | 19.69                    | 19.44                         | 19.69                  |                     |
| 20              | QPSK       | 50      | 0         | 20.02                        | 20.04                 | 19.91                        | 19.95                    | 19.93                         | 19.78                  |                     |
| 20              | QPSK       | 50      | 24        | 20.01                        | 20.02                 | 20.03                        | 20.15                    | 20.00                         | 19.92                  | 20.5                |
| 20              | QPSK       | 50      | 50        | 19.96                        | 19.97                 | 20.00                        | 20.09                    | 19.91                         | 19.97                  |                     |
| 20              | QPSK       | 100     | 0         | 19.92                        | 19.95                 | 19.90                        | 20.06                    | 19.89                         | 19.83                  |                     |
| 20              | QPSK       | 100     | 0         | 19.92                        | 19.95                 | 19.90                        | 20.06                    | 19.89                         | 19.83                  |                     |
| 20              | 16QAM      | 1       | 0         | 20.24                        | 20.36                 | 20.41                        | 19.93                    | 20.01                         | 19.76                  | 20.5                |
| 20              | 16QAM      | 1       | 49        | 20.16                        | 20.26                 | 20.18                        | 20.35                    | 20.22                         | 20.13                  |                     |
| 20              | 16QAM      | 1       | 99        | 20.11                        | 20.16                 | 20.24                        | 20.06                    | 19.84                         | 20.03                  |                     |
| 20              | 16QAM      | 50      | 0         | 20.05                        | 20.08                 | 19.94                        | 19.29                    | 19.07                         | 19.80                  |                     |
| 20              | 16QAM      | 50      | 24        | 20.03                        | 20.06                 | 20.05                        | 20.18                    | 20.04                         | 19.95                  | 20.5                |
| 20              | 16QAM      | 50      | 50        | 20.00                        | 20.02                 | 20.03                        | 20.12                    | 19.94                         | 20.02                  |                     |
| 20              | 16QAM      | 100     | 0         | 19.96                        | 19.97                 | 19.95                        | 20.10                    | 19.93                         | 19.86                  |                     |
| 20              | 16QAM      | 100     | 0         | 19.96                        | 19.97                 | 19.95                        | 20.10                    | 19.93                         | 19.86                  |                     |
| 20              | 64QAM      | 1       | 0         | 20.14                        | 20.15                 | 20.07                        | 19.78                    | 19.80                         | 19.55                  | 20.5                |
| 20              | 64QAM      | 1       | 49        | 20.03                        | 20.01                 | 20.01                        | 20.18                    | 20.09                         | 19.86                  |                     |
| 20              | 64QAM      | 1       | 99        | 20.00                        | 20.00                 | 20.40                        | 19.80                    | 19.68                         | 19.91                  |                     |
| 20              | 64QAM      | 50      | 0         | 20.03                        | 20.06                 | 19.92                        | 20.00                    | 19.98                         | 19.78                  |                     |
| 20              | 64QAM      | 50      | 24        | 20.06                        | 20.07                 | 20.05                        | 20.22                    | 20.02                         | 19.93                  | 20.5                |
| 20              | 64QAM      | 50      | 50        | 20.00                        | 20.01                 | 20.03                        | 20.13                    | 19.93                         | 20.00                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.99                        | 19.99                 | 19.94                        | 20.09                    | 19.92                         | 19.84                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.99                        | 19.99                 | 19.94                        | 20.09                    | 19.92                         | 19.84                  |                     |
| Channel         |            |         |           | 38765                        | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  |                     |
| Frequency (MHz) |            |         |           | 2507.5                       | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 19.80                        | 19.91                 | 19.58                        | 19.79                    | 19.76                         | 19.55                  | 20.5                |
| 15              | QPSK       | 1       | 37        | 19.87                        | 19.88                 | 19.75                        | 19.97                    | 19.87                         | 19.80                  |                     |
| 15              | QPSK       | 1       | 74        | 19.85                        | 19.87                 | 19.60                        | 19.85                    | 19.63                         | 19.79                  |                     |
| 15              | QPSK       | 36      | 0         | 20.01                        | 20.02                 | 19.85                        | 19.98                    | 19.93                         | 19.80                  |                     |
| 15              | QPSK       | 36      | 20        | 20.03                        | 20.03                 | 19.98                        | 20.17                    | 20.07                         | 19.97                  | 20.5                |
| 15              | QPSK       | 36      | 39        | 19.98                        | 19.96                 | 19.93                        | 20.11                    | 19.95                         | 19.97                  |                     |
| 15              | QPSK       | 75      | 0         | 19.96                        | 19.99                 | 19.91                        | 20.12                    | 19.99                         | 19.87                  |                     |
| 15              | 16QAM      | 1       | 0         | 20.26                        | 20.31                 | 20.03                        | 20.10                    | 20.14                         | 19.95                  |                     |
| 15              | 16QAM      | 1       | 37        | 20.22                        | 20.22                 | 20.40                        | 20.36                    | 20.26                         | 20.15                  | 20.5                |
| 15              | 16QAM      | 1       | 74        | 20.14                        | 20.17                 | 20.11                        | 20.17                    | 20.03                         | 20.15                  |                     |
| 15              | 16QAM      | 36      | 0         | 20.00                        | 20.05                 | 19.87                        | 19.96                    | 19.94                         | 19.79                  |                     |
| 15              | 16QAM      | 36      | 20        | 19.99                        | 20.03                 | 19.98                        | 20.15                    | 20.05                         | 19.96                  |                     |
| 15              | 16QAM      | 36      | 39        | 19.98                        | 19.98                 | 19.92                        | 20.12                    | 19.98                         | 19.97                  | 20.5                |
| 15              | 16QAM      | 75      | 0         | 20.01                        | 20.01                 | 19.98                        | 20.13                    | 20.04                         | 19.88                  |                     |
| 15              | 64QAM      | 1       | 0         | 20.11                        | 20.13                 | 19.82                        | 19.92                    | 19.96                         | 19.69                  |                     |
| 15              | 64QAM      | 1       | 37        | 20.07                        | 20.09                 | 20.14                        | 20.19                    | 20.11                         | 20.02                  |                     |
| 15              | 64QAM      | 1       | 74        | 20.01                        | 20.04                 | 20.00                        | 20.02                    | 19.88                         | 20.00                  | 20.5                |
| 15              | 64QAM      | 36      | 0         | 20.04                        | 20.05                 | 19.88                        | 20.01                    | 19.98                         | 19.91                  |                     |
| 15              | 64QAM      | 36      | 20        | 20.06                        | 20.07                 | 20.02                        | 20.18                    | 20.08                         | 20.00                  |                     |
| 15              | 64QAM      | 36      | 39        | 20.03                        | 20.05                 | 19.94                        | 20.13                    | 19.97                         | 19.95                  |                     |
| 15              | 64QAM      | 75      | 0         | 20.00                        | 20.01                 | 19.94                        | 20.12                    | 19.99                         | 19.86                  |                     |
| Channel         |            |         |           | 38740                        | 39700                 | 40160                        | 40620                    | 41080                         | 41540                  |                     |
| Frequency (MHz) |            |         |           | 2505                         | 2501                  | 2547                         | 2593                     | 2639                          | 2685                   |                     |
| 10              | QPSK       | 1       | 0         | 19.71                        | 19.65                 | 19.39                        | 19.50                    | 19.42                         | 19.35                  | 20.5                |
| 10              | QPSK       | 1       | 25        | 19.61                        | 19.62                 | 19.66                        | 19.75                    | 19.67                         | 19.61                  |                     |
| 10              | QPSK       | 1       | 49        | 19.67                        | 19.69                 | 19.54                        | 19.54                    | 19.50                         | 19.42                  |                     |
| 10              | QPSK       | 25      | 0         | 19.84                        | 19.85                 | 19.67                        | 19.63                    | 19.74                         | 19.67                  |                     |
| 10              | QPSK       | 25      | 12        | 19.84                        | 19.85                 | 19.84                        | 20.00                    | 19.81                         | 19.83                  | 20.5                |
| 10              | QPSK       | 25      | 25        | 19.81                        | 19.82                 | 19.73                        | 19.89                    | 19.78                         | 19.70                  |                     |
| 10              | QPSK       | 50      | 0         | 19.77                        | 19.78                 | 19.79                        | 19.89                    | 19.75                         | 19.75                  |                     |
| 10              | 16QAM      | 1       | 0         | 20.06                        | 20.09                 | 19.74                        | 19.86                    | 19.81                         | 19.74                  |                     |
| 10              | 16QAM      | 1       | 25        | 20.01                        | 20.02                 | 20.04                        | 20.12                    | 20.01                         | 19.96                  | 20.5                |
| 10              | 16QAM      | 1       | 49        | 19.97                        | 20.03                 | 19.76                        | 19.89                    | 19.79                         | 19.70                  |                     |
| 10              | 16QAM      | 25      | 0         | 19.87                        | 19.91                 | 19.73                        | 19.84                    | 19.83                         | 19.69                  |                     |
| 10              | 16QAM      | 25      | 12        | 19.88                        | 19.91                 | 19.92                        | 20.04                    | 19.90                         | 19.88                  |                     |
| 10              | 16QAM      | 25      | 25        | 19.85                        | 19.83                 | 19.80                        | 19.91                    | 19.85                         | 19.74                  | 20.5                |
| 10              | 16QAM      | 50      | 0         | 19.82                        | 19.85                 | 19.83                        | 19.95                    | 19.79                         | 19.76                  |                     |
| 10              | 64QAM      | 1       | 0         | 19.96                        | 20.02                 | 19.66                        | 19.72                    | 19.67                         | 19.62                  |                     |
| 10              | 64QAM      | 1       | 25        | 19.96                        | 19.97                 | 20.05                        | 20.12                    | 20.04                         | 19.93                  |                     |
| 10              | 64QAM      | 1       | 49        | 19.89                        | 19.92                 | 19.76                        | 19.80                    | 19.71                         | 19.67                  | 20.5                |
| 10              | 64QAM      | 25      | 0         | 19.93                        | 19.94                 | 19.79                        | 19.92                    | 19.79                         | 19.76                  |                     |
| 10              | 64QAM      | 25      | 12        | 19.96                        | 19.96                 | 19.95                        | 20.07                    | 19.91                         | 19.96                  |                     |
| 10              | 64QAM      | 25      | 25        | 19.85                        | 19.82                 | 19.83                        | 19.96                    | 19.86                         | 19.83                  |                     |
| 10              | 64QAM      | 50      | 0         | 19.83                        | 19.84                 | 19.81                        | 19.92                    | 19.76                         | 19.80                  |                     |
| Channel         |            |         |           | 38715                        | 38675                 | 40148                        | 40620                    | 41093                         | 41565                  |                     |
| Frequency (MHz) |            |         |           | 2502.5                       | 2498.5                | 2543.8                       | 2593                     | 2640.30                       | 2687.5                 |                     |
| 5               | QPSK       | 1       | 0         | 19.75                        | 19.71                 | 19.68                        | 19.76                    | 19.66                         | 19.67                  | 20.5                |
| 5               | QPSK       | 1       | 12        | 19.68                        | 19.69                 | 19.68                        | 19.80                    | 19.71                         | 19.67                  |                     |
| 5               | QPSK       | 1       | 24        | 19.67                        | 19.69                 | 19.72                        | 19.78                    | 19.71                         | 19.60                  |                     |
| 5               | QPSK       | 12      | 0         | 19.85                        | 19.86                 | 19.80                        | 19.90                    | 19.84                         | 19.82                  |                     |
| 5               | QPSK       | 12      | 7         | 19.88                        | 19.91                 | 19.88                        | 20.03                    | 19.84                         | 19.83                  | 20.5                |
| 5               | QPSK       | 12      | 13        | 19.87                        | 19.86                 | 19.86                        | 19.98                    | 19.85                         | 19.77                  |                     |
| 5               | QPSK       | 25      | 0         | 19.84                        | 19.83                 | 19.81                        | 19.95                    | 19.79                         | 19.76                  |                     |
| 5               | 16QAM      | 1       | 0         | 20.01                        | 20.07                 | 19.84                        | 20.02                    | 19.92                         | 19.90                  |                     |
| 5               | 16QAM      | 1       | 12        | 19.95                        | 19.95                 | 19.84                        | 20.07                    | 19.97                         | 19.85                  | 20.5                |
| 5               | 16QAM      | 1       | 24        | 20.02                        | 20.04                 | 19.89                        | 20.09                    | 19.96                         | 19.84                  |                     |
| 5               | 16QAM      | 12      | 0         | 19.92                        | 19.93                 | 19.86                        | 19.94                    | 19.86                         | 19.85                  |                     |
| 5               | 16QAM      | 12      | 7         | 19.93                        | 19.94                 | 19.92                        | 20.03                    | 19.86                         | 19.87                  |                     |
| 5               | 16QAM      | 12      | 13        | 19.92                        | 19.92                 | 19.88                        | 20.02                    | 19.91                         | 19.84                  | 20.5                |
| 5               | 16QAM      | 25      | 0         | 19.92                        | 19.90                 | 19.92                        | 20.04                    | 19.88                         | 19.86                  |                     |
| 5               | 64QAM      | 1       | 0         | 19.95                        | 19.93                 | 19.81                        | 19.92                    | 19.86                         | 19.85                  |                     |
| 5               | 64QAM      | 1       | 12        | 19.91                        | 19.92                 | 19.95                        | 20.02                    | 19.92                         | 19.89                  |                     |
| 5               | 64QAM      | 1       | 24        | 19.93                        | 19.96                 | 19.89                        | 20.00                    | 19.93                         | 19.82                  | 20.5                |
| 5               | 64QAM      | 12      | 0         | 19.95                        | 19.95                 | 19.89                        | 19.95                    | 19.86                         | 19.88                  |                     |
| 5               | 64QAM      | 12      | 7         | 19.94                        | 19.96                 | 19.93                        | 20.05                    | 19.92                         | 19.90                  |                     |
| 5               | 64QAM      | 12      | 13        | 19.89                        | 19.94                 | 19.92                        | 20.04                    | 19.89                         | 19.85                  |                     |
| 5               | 64QAM      | 25      | 0         | 19.90                        | 19.90                 | 19.92                        | 20.02                    | 19.88                         | 19.87                  |                     |

| Band 38_Ant 3   |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 37650                 | 38000                    | 38150                  |                     |
| Frequency (MHz) |            |         |           | 2560                  | 2595                     | 2630                   |                     |
| 20              | QPSK       | 1       | 0         | 20.36                 | 20.41                    | 20.39                  | 21.5                |
| 20              | QPSK       | 1       | 49        | 20.43                 | 20.47                    | 20.43                  |                     |
| 20              | QPSK       | 1       | 99        | 20.46                 | 20.45                    | 20.41                  |                     |
| 20              | QPSK       | 50      | 0         | 20.32                 | 20.30                    | 20.28                  |                     |
| 20              | QPSK       | 50      | 24        | 20.50                 | 20.49                    | 20.40                  |                     |
| 20              | QPSK       | 50      | 50        | 20.43                 | 20.41                    | 20.37                  | 21.5                |
| 20              | QPSK       | 100     | 0         | 20.41                 | 20.39                    | 20.28                  |                     |
| 20              | 16QAM      | 1       | 0         | 20.56                 | 20.55                    | 20.56                  |                     |
| 20              | 16QAM      | 1       | 49        | 20.57                 | 20.55                    | 20.56                  |                     |
| 20              | 16QAM      | 1       | 99        | 20.57                 | 20.58                    | 20.59                  |                     |
| 20              | 16QAM      | 50      | 0         | 20.33                 | 20.32                    | 20.30                  | 21.5                |
| 20              | 16QAM      | 50      | 24        | 20.54                 | 20.52                    | 20.41                  |                     |
| 20              | 16QAM      | 50      | 50        | 20.46                 | 20.45                    | 20.40                  |                     |
| 20              | 16QAM      | 100     | 0         | 20.43                 | 20.42                    | 20.31                  |                     |
| 20              | 64QAM      | 1       | 0         | 20.29                 | 20.29                    | 20.28                  |                     |
| 20              | 64QAM      | 1       | 49        | 20.32                 | 20.29                    | 20.27                  | 21.5                |
| 20              | 64QAM      | 1       | 99        | 20.34                 | 20.37                    | 20.40                  |                     |
| 20              | 64QAM      | 50      | 0         | 20.34                 | 20.34                    | 20.33                  |                     |
| 20              | 64QAM      | 50      | 24        | 20.53                 | 20.54                    | 20.43                  |                     |
| 20              | 64QAM      | 50      | 50        | 20.49                 | 20.47                    | 20.42                  |                     |
| 20              | 64QAM      | 100     | 0         | 20.44                 | 20.45                    | 20.33                  |                     |
| Channel         |            |         |           | 37625                 | 38000                    | 38175                  |                     |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |
| 15              | QPSK       | 1       | 0         | 20.34                 | 20.36                    | 20.32                  | 21.5                |
| 15              | QPSK       | 1       | 37        | 20.38                 | 20.40                    | 20.33                  |                     |
| 15              | QPSK       | 1       | 74        | 20.41                 | 20.41                    | 20.34                  |                     |
| 15              | QPSK       | 36      | 0         | 20.35                 | 20.34                    | 20.30                  |                     |
| 15              | QPSK       | 36      | 20        | 20.53                 | 20.49                    | 20.38                  |                     |
| 15              | QPSK       | 36      | 39        | 20.44                 | 20.41                    | 20.38                  | 21.5                |
| 15              | QPSK       | 75      | 0         | 20.43                 | 20.42                    | 20.31                  |                     |
| 15              | 16QAM      | 1       | 0         | 20.53                 | 20.54                    | 20.49                  |                     |
| 15              | 16QAM      | 1       | 37        | 20.49                 | 20.48                    | 20.49                  |                     |
| 15              | 16QAM      | 1       | 74        | 20.56                 | 20.57                    | 20.54                  |                     |
| 15              | 16QAM      | 36      | 0         | 20.30                 | 20.29                    | 20.27                  | 21.5                |
| 15              | 16QAM      | 36      | 20        | 20.49                 | 20.47                    | 20.36                  |                     |
| 15              | 16QAM      | 36      | 39        | 20.42                 | 20.39                    | 20.36                  |                     |
| 15              | 16QAM      | 75      | 0         | 20.47                 | 20.44                    | 20.33                  |                     |
| 15              | 64QAM      | 1       | 0         | 20.25                 | 20.26                    | 20.16                  |                     |
| 15              | 64QAM      | 1       | 37        | 20.31                 | 20.29                    | 20.29                  | 21.5                |
| 15              | 64QAM      | 1       | 74        | 20.31                 | 20.30                    | 20.34                  |                     |
| 15              | 64QAM      | 36      | 0         | 20.36                 | 20.36                    | 20.33                  |                     |
| 15              | 64QAM      | 36      | 20        | 20.56                 | 20.54                    | 20.41                  |                     |
| 15              | 64QAM      | 36      | 39        | 20.46                 | 20.47                    | 20.43                  |                     |
| 15              | 64QAM      | 75      | 0         | 20.48                 | 20.45                    | 20.33                  |                     |
| Channel         |            |         |           | 37600                 | 38000                    | 38200                  |                     |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |
| 10              | QPSK       | 1       | 0         | 20.41                 | 20.34                    | 20.42                  | 21.5                |
| 10              | QPSK       | 1       | 25        | 20.31                 | 20.43                    | 20.26                  |                     |
| 10              | QPSK       | 1       | 49        | 20.37                 | 20.43                    | 20.32                  |                     |
| 10              | QPSK       | 25      | 0         | 20.31                 | 20.24                    | 20.28                  |                     |
| 10              | QPSK       | 25      | 12        | 20.50                 | 20.43                    | 20.41                  |                     |
| 10              | QPSK       | 25      | 25        | 20.47                 | 20.37                    | 20.35                  | 21.5                |
| 10              | QPSK       | 50      | 0         | 20.36                 | 20.42                    | 20.30                  |                     |
| 10              | 16QAM      | 1       | 0         | 20.51                 | 20.45                    | 20.40                  |                     |
| 10              | 16QAM      | 1       | 25        | 20.53                 | 20.43                    | 20.47                  |                     |
| 10              | 16QAM      | 1       | 49        | 20.52                 | 20.53                    | 20.51                  |                     |
| 10              | 16QAM      | 25      | 0         | 20.32                 | 20.37                    | 20.17                  | 21.5                |
| 10              | 16QAM      | 25      | 12        | 20.47                 | 20.42                    | 20.33                  |                     |
| 10              | 16QAM      | 25      | 25        | 20.34                 | 20.49                    | 20.37                  |                     |
| 10              | 16QAM      | 50      | 0         | 20.56                 | 20.54                    | 20.40                  |                     |
| 10              | 64QAM      | 1       | 0         | 20.17                 | 20.21                    | 20.16                  |                     |
| 10              | 64QAM      | 1       | 25        | 20.25                 | 20.39                    | 20.30                  | 21.5                |
| 10              | 64QAM      | 1       | 49        | 20.23                 | 20.27                    | 20.39                  |                     |
| 10              | 64QAM      | 25      | 0         | 20.30                 | 20.30                    | 20.28                  |                     |
| 10              | 64QAM      | 25      | 12        | 20.56                 | 20.44                    | 20.57                  |                     |
| 10              | 64QAM      | 25      | 25        | 20.45                 | 20.44                    | 20.37                  |                     |
| 10              | 64QAM      | 50      | 0         | 20.46                 | 20.49                    | 20.33                  |                     |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  |                     |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |
| 5               | QPSK       | 1       | 0         | 20.35                 | 20.37                    | 20.27                  | 21.5                |
| 5               | QPSK       | 1       | 12        | 20.41                 | 20.47                    | 20.30                  |                     |
| 5               | QPSK       | 1       | 24        | 20.47                 | 20.44                    | 20.39                  |                     |
| 5               | QPSK       | 12      | 0         | 20.39                 | 20.34                    | 20.32                  |                     |
| 5               | QPSK       | 12      | 7         | 20.54                 | 20.49                    | 20.35                  |                     |
| 5               | QPSK       | 12      | 13        | 20.46                 | 20.49                    | 20.38                  | 21.5                |
| 5               | QPSK       | 25      | 0         | 20.30                 | 20.46                    | 20.40                  |                     |
| 5               | 16QAM      | 1       | 0         | 20.55                 | 20.50                    | 20.57                  |                     |
| 5               | 16QAM      | 1       | 12        | 20.55                 | 20.57                    | 20.44                  |                     |
| 5               | 16QAM      | 1       | 24        | 20.53                 | 20.52                    | 20.55                  |                     |
| 5               | 16QAM      | 12      | 0         | 20.30                 | 20.21                    | 20.34                  | 21.5                |
| 5               | 16QAM      | 12      | 7         | 20.54                 | 20.37                    | 20.44                  |                     |
| 5               | 16QAM      | 12      | 13        | 20.41                 | 20.38                    | 20.37                  |                     |
| 5               | 16QAM      | 25      | 0         | 20.56                 | 20.51                    | 20.33                  |                     |
| 5               | 64QAM      | 1       | 0         | 20.35                 | 20.13                    | 20.13                  |                     |
| 5               | 64QAM      | 1       | 12        | 20.22                 | 20.25                    | 20.25                  | 21.5                |
| 5               | 64QAM      | 1       | 24        | 20.37                 | 20.35                    | 20.37                  |                     |
| 5               | 64QAM      | 12      | 0         | 20.37                 | 20.40                    | 20.24                  |                     |
| 5               | 64QAM      | 12      | 7         | 20.52                 | 20.57                    | 20.38                  |                     |
| 5               | 64QAM      | 12      | 13        | 20.58                 | 20.45                    | 20.44                  |                     |
| 5               | 64QAM      | 25      | 0         | 20.55                 | 20.38                    | 20.43                  |                     |



| Band 41_Ant 3   |            |         |           |                              |                       |                              |                          |                               |                        |                     |
|-----------------|------------|---------|-----------|------------------------------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | for IC Power Low Ch. / Freq. | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 38790                        | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2510                         | 2508                  | 2549.5                       | 2593                     | 2635.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 19.91                        | 19.92                 | 19.91                        | 19.88                    | 19.73                         | 19.49                  | 21                  |
| 20              | QPSK       | 1       | 49        | 19.95                        | 19.94                 | 19.97                        | 20.08                    | 19.99                         | 19.90                  |                     |
| 20              | QPSK       | 1       | 99        | 19.89                        | 19.88                 | 19.97                        | 19.81                    | 19.55                         | 19.79                  |                     |
| 20              | QPSK       | 50      | 0         | 20.00                        | 20.02                 | 19.91                        | 19.96                    | 19.95                         | 19.78                  |                     |
| 20              | QPSK       | 50      | 24        | 20.00                        | 20.02                 | 20.00                        | 20.17                    | 20.00                         | 19.92                  | 21                  |
| 20              | QPSK       | 50      | 50        | 19.96                        | 19.97                 | 20.01                        | 20.10                    | 19.93                         | 19.98                  |                     |
| 20              | QPSK       | 100     | 0         | 19.91                        | 19.93                 | 19.90                        | 20.07                    | 19.88                         | 19.84                  |                     |
| 20              | 16QAM      | 1       | 0         | 20.07                        | 20.10                 | 20.08                        | 19.81                    | 19.86                         | 19.62                  |                     |
| 20              | 16QAM      | 1       | 49        | 19.99                        | 20.02                 | 20.04                        | 20.14                    | 20.12                         | 19.96                  | 21                  |
| 20              | 16QAM      | 1       | 99        | 20.00                        | 20.00                 | 20.12                        | 19.88                    | 19.70                         | 19.92                  |                     |
| 20              | 16QAM      | 50      | 0         | 20.02                        | 20.07                 | 19.95                        | 20.20                    | 19.97                         | 19.92                  |                     |
| 20              | 16QAM      | 50      | 24        | 20.05                        | 20.04                 | 20.03                        | 20.20                    | 20.03                         | 19.96                  |                     |
| 20              | 16QAM      | 50      | 50        | 20.00                        | 19.99                 | 20.02                        | 20.14                    | 19.95                         | 20.01                  | 21                  |
| 20              | 16QAM      | 100     | 0         | 19.96                        | 19.97                 | 19.93                        | 20.10                    | 19.93                         | 19.87                  |                     |
| 20              | 64QAM      | 1       | 0         | 19.88                        | 19.93                 | 19.81                        | 19.49                    | 19.55                         | 19.30                  |                     |
| 20              | 64QAM      | 1       | 49        | 19.77                        | 19.78                 | 19.70                        | 19.64                    | 19.69                         | 19.73                  |                     |
| 20              | 64QAM      | 1       | 99        | 19.76                        | 19.73                 | 20.03                        | 19.64                    | 19.47                         | 19.68                  | 21                  |
| 20              | 64QAM      | 50      | 0         | 20.03                        | 20.06                 | 19.93                        | 19.88                    | 19.97                         | 19.78                  |                     |
| 20              | 64QAM      | 50      | 24        | 20.05                        | 20.07                 | 20.03                        | 20.19                    | 20.02                         | 19.94                  |                     |
| 20              | 64QAM      | 50      | 50        | 20.00                        | 20.02                 | 20.01                        | 20.14                    | 19.94                         | 19.99                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.95                        | 19.98                 | 19.93                        | 20.11                    | 19.92                         | 19.85                  |                     |
| Channel         |            |         |           | 38765                        | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Line-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5                       | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 19.89                        | 19.95                 | 19.61                        | 19.78                    | 19.80                         | 19.56                  | 21                  |
| 15              | QPSK       | 1       | 37        | 19.87                        | 19.91                 | 19.76                        | 19.69                    | 19.60                         | 19.63                  |                     |
| 15              | QPSK       | 1       | 74        | 19.87                        | 19.86                 | 19.58                        | 19.62                    | 19.68                         | 19.61                  |                     |
| 15              | QPSK       | 36      | 0         | 19.99                        | 20.04                 | 19.84                        | 19.98                    | 19.95                         | 19.81                  |                     |
| 15              | QPSK       | 36      | 20        | 19.99                        | 20.01                 | 20.01                        | 20.15                    | 20.05                         | 19.99                  | 21                  |
| 15              | QPSK       | 36      | 39        | 19.95                        | 19.96                 | 19.91                        | 20.11                    | 19.95                         | 19.97                  |                     |
| 15              | QPSK       | 75      | 0         | 19.84                        | 19.98                 | 19.91                        | 20.09                    | 19.98                         | 19.86                  |                     |
| 15              | 16QAM      | 1       | 0         | 20.06                        | 20.13                 | 19.91                        | 19.92                    | 19.99                         | 19.75                  |                     |
| 15              | 16QAM      | 1       | 37        | 19.97                        | 19.96                 | 20.08                        | 20.15                    | 20.12                         | 20.00                  | 21                  |
| 15              | 16QAM      | 1       | 74        | 20.00                        | 20.01                 | 19.94                        | 20.02                    | 19.89                         | 20.03                  |                     |
| 15              | 16QAM      | 36      | 0         | 19.98                        | 20.02                 | 19.83                        | 19.95                    | 19.94                         | 19.76                  |                     |
| 15              | 16QAM      | 36      | 20        | 19.96                        | 20.00                 | 19.98                        | 20.12                    | 20.02                         | 19.95                  |                     |
| 15              | 16QAM      | 36      | 39        | 19.94                        | 19.96                 | 19.90                        | 20.10                    | 19.93                         | 19.95                  | 21                  |
| 15              | 16QAM      | 75      | 0         | 19.97                        | 19.99                 | 19.95                        | 20.12                    | 20.03                         | 19.90                  |                     |
| 15              | 64QAM      | 1       | 0         | 19.85                        | 19.87                 | 19.56                        | 19.66                    | 19.70                         | 19.48                  |                     |
| 15              | 64QAM      | 1       | 37        | 19.78                        | 19.80                 | 19.85                        | 19.92                    | 19.87                         | 19.75                  |                     |
| 15              | 64QAM      | 1       | 74        | 19.75                        | 19.76                 | 19.74                        | 19.81                    | 19.62                         | 19.77                  | 21                  |
| 15              | 64QAM      | 36      | 0         | 20.02                        | 20.05                 | 19.85                        | 19.89                    | 19.96                         | 19.81                  |                     |
| 15              | 64QAM      | 36      | 20        | 20.03                        | 20.05                 | 19.99                        | 20.18                    | 20.06                         | 20.01                  |                     |
| 15              | 64QAM      | 36      | 39        | 20.01                        | 20.02                 | 19.91                        | 20.14                    | 19.96                         | 19.97                  |                     |
| 15              | 64QAM      | 75      | 0         | 19.99                        | 20.02                 | 19.94                        | 20.10                    | 20.00                         | 19.85                  |                     |
| Channel         |            |         |           | 38740                        | 39700                 | 40160                        | 40620                    | 41080                         | 41540                  | Line-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5                       | 2503                  | 2547                         | 2593                     | 2639                          | 2685                   |                     |
| 10              | QPSK       | 1       | 0         | 19.81                        | 20.04                 | 19.67                        | 19.88                    | 19.75                         | 19.58                  | 21                  |
| 10              | QPSK       | 1       | 25        | 19.82                        | 19.94                 | 19.70                        | 20.01                    | 19.93                         | 19.84                  |                     |
| 10              | QPSK       | 1       | 49        | 19.81                        | 19.84                 | 19.54                        | 19.84                    | 19.72                         | 19.90                  |                     |
| 10              | QPSK       | 25      | 0         | 19.91                        | 20.02                 | 19.60                        | 19.93                    | 20.05                         | 19.75                  |                     |
| 10              | QPSK       | 25      | 12        | 19.95                        | 20.04                 | 19.99                        | 20.20                    | 19.97                         | 19.91                  | 21                  |
| 10              | QPSK       | 25      | 25        | 19.99                        | 19.94                 | 19.84                        | 20.04                    | 19.92                         | 19.89                  |                     |
| 10              | QPSK       | 50      | 0         | 19.89                        | 20.08                 | 19.93                        | 20.03                    | 19.99                         | 19.87                  |                     |
| 10              | 16QAM      | 1       | 0         | 20.07                        | 20.07                 | 19.86                        | 19.87                    | 20.05                         | 19.77                  |                     |
| 10              | 16QAM      | 1       | 25        | 19.96                        | 19.96                 | 20.00                        | 20.07                    | 20.11                         | 20.03                  | 21                  |
| 10              | 16QAM      | 1       | 49        | 19.92                        | 20.07                 | 19.93                        | 20.05                    | 19.94                         | 20.09                  |                     |
| 10              | 16QAM      | 25      | 0         | 20.02                        | 20.05                 | 19.88                        | 19.92                    | 19.99                         | 19.83                  |                     |
| 10              | 16QAM      | 25      | 12        | 19.99                        | 19.92                 | 20.01                        | 20.07                    | 19.97                         | 19.93                  |                     |
| 10              | 16QAM      | 25      | 25        | 19.96                        | 19.95                 | 19.97                        | 20.12                    | 19.87                         | 20.04                  | 21                  |
| 10              | 16QAM      | 50      | 0         | 19.90                        | 20.04                 | 20.05                        | 20.19                    | 20.03                         | 19.99                  |                     |
| 10              | 64QAM      | 1       | 0         | 19.81                        | 19.88                 | 19.52                        | 19.65                    | 19.71                         | 19.42                  |                     |
| 10              | 64QAM      | 1       | 25        | 19.76                        | 19.89                 | 19.92                        | 19.96                    | 19.95                         | 19.83                  |                     |
| 10              | 64QAM      | 1       | 49        | 19.82                        | 19.67                 | 19.70                        | 19.89                    | 19.58                         | 19.61                  | 21                  |
| 10              | 64QAM      | 25      | 0         | 19.94                        | 20.03                 | 19.75                        | 20.04                    | 19.96                         | 19.86                  |                     |
| 10              | 64QAM      | 25      | 12        | 20.12                        | 20.12                 | 20.06                        | 20.19                    | 20.15                         | 19.95                  |                     |
| 10              | 64QAM      | 25      | 25        | 19.92                        | 19.96                 | 19.96                        | 20.10                    | 19.90                         | 19.91                  |                     |
| 10              | 64QAM      | 50      | 0         | 20.05                        | 19.92                 | 19.99                        | 20.00                    | 20.04                         | 19.87                  |                     |
| Channel         |            |         |           | 38715                        | 38675                 | 40148                        | 40620                    | 41093                         | 41565                  | Line-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5                       | 2498.5                | 2543.8                       | 2593                     | 2640.30                       | 2687.5                 |                     |
| 5               | QPSK       | 1       | 0         | 19.94                        | 19.86                 | 19.66                        | 19.74                    | 19.67                         | 19.46                  | 21                  |
| 5               | QPSK       | 1       | 12        | 19.91                        | 19.87                 | 19.75                        | 20.03                    | 19.94                         | 19.86                  |                     |
| 5               | QPSK       | 1       | 24        | 19.78                        | 19.87                 | 19.49                        | 19.95                    | 19.71                         | 19.87                  |                     |
| 5               | QPSK       | 12      | 0         | 19.91                        | 20.02                 | 19.67                        | 19.96                    | 20.04                         | 19.90                  |                     |
| 5               | QPSK       | 12      | 7         | 19.94                        | 20.05                 | 20.05                        | 20.12                    | 20.03                         | 20.04                  | 21                  |
| 5               | QPSK       | 12      | 13        | 19.87                        | 20.06                 | 19.63                        | 20.11                    | 19.91                         | 19.97                  |                     |
| 5               | QPSK       | 25      | 0         | 20.04                        | 19.94                 | 19.95                        | 20.15                    | 19.94                         | 19.83                  |                     |
| 5               | 16QAM      | 1       | 0         | 20.16                        | 20.12                 | 19.97                        | 19.88                    | 19.94                         | 19.67                  |                     |
| 5               | 16QAM      | 1       | 12        | 19.89                        | 20.01                 | 20.00                        | 20.12                    | 20.10                         | 20.00                  | 21                  |
| 5               | 16QAM      | 1       | 24        | 20.04                        | 20.02                 | 20.00                        | 20.03                    | 19.81                         | 19.98                  |                     |
| 5               | 16QAM      | 12      | 0         | 20.06                        | 19.95                 | 19.69                        | 19.97                    | 20.01                         | 19.84                  |                     |
| 5               | 16QAM      | 12      | 7         | 19.94                        | 20.03                 | 19.94                        | 20.14                    | 19.92                         | 19.98                  |                     |
| 5               | 16QAM      | 12      | 13        | 19.97                        | 20.06                 | 19.92                        | 20.07                    | 20.00                         | 19.88                  | 21                  |
| 5               | 16QAM      | 25      | 0         | 19.94                        | 19.96                 | 19.95                        | 20.19                    | 19.97                         | 19.95                  |                     |
| 5               | 64QAM      | 1       | 0         | 19.85                        | 19.92                 | 19.66                        | 19.71                    | 19.70                         | 19.52                  |                     |
| 5               | 64QAM      | 1       | 12        | 19.81                        | 19.78                 | 19.77                        | 19.94                    | 19.94                         | 19.70                  |                     |
| 5               | 64QAM      | 1       | 24        | 19.70                        | 19.74                 | 19.69                        | 19.72                    | 19.64                         | 19.75                  | 21                  |
| 5               | 64QAM      | 12      | 0         | 20.02                        | 19.95                 | 19.79                        | 20.02                    | 20.06                         | 19.74                  |                     |
| 5               | 64QAM      | 12      | 7         | 20.08                        | 20.11                 | 19.92                        | 20.15                    | 20.03                         | 19.92                  |                     |
| 5               | 64QAM      | 12      | 13        | 20.03                        | 20.09                 | 19.86                        | 20.05                    | 19.95                         | 20.07                  |                     |
| 5               | 64QAM      | 25      | 0         | 19.91                        | 20.06                 | 19.91                        | 20.12                    | 19.91                         | 19.76                  |                     |



| Band 41_Ant 3   |            |         |           |                              |                       |                              |                          |                               |                        |                     |
|-----------------|------------|---------|-----------|------------------------------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | for IC Power Low Ch. / Freq. | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 38790                        | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2510                         | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 19.84                        | 19.87                 | 19.83                        | 19.80                    | 19.83                         | 19.78                  | 21                  |
| 20              | QPSK       | 1       | 49        | 19.76                        | 19.80                 | 19.87                        | 19.95                    | 19.87                         | 19.77                  |                     |
| 20              | QPSK       | 1       | 99        | 19.81                        | 19.79                 | 19.89                        | 19.69                    | 19.44                         | 19.69                  |                     |
| 20              | QPSK       | 50      | 0         | 20.02                        | 20.04                 | 19.91                        | 19.95                    | 19.93                         | 19.78                  |                     |
| 20              | QPSK       | 50      | 24        | 20.01                        | 20.02                 | 20.03                        | 20.15                    | 20.00                         | 19.92                  | 21                  |
| 20              | QPSK       | 50      | 50        | 19.96                        | 19.97                 | 20.00                        | 20.09                    | 19.91                         | 19.97                  |                     |
| 20              | QPSK       | 100     | 0         | 19.92                        | 19.95                 | 19.90                        | 20.06                    | 19.89                         | 19.83                  |                     |
| 20              | QPSK       | 100     | 0         | 19.92                        | 19.95                 | 19.90                        | 20.06                    | 19.89                         | 19.83                  |                     |
| 20              | 16QAM      | 1       | 0         | 20.24                        | 20.36                 | 20.41                        | 19.93                    | 20.01                         | 19.76                  | 21                  |
| 20              | 16QAM      | 1       | 49        | 20.16                        | 20.26                 | 20.18                        | 20.35                    | 20.22                         | 20.13                  |                     |
| 20              | 16QAM      | 1       | 99        | 20.11                        | 20.16                 | 20.24                        | 20.06                    | 19.84                         | 20.03                  |                     |
| 20              | 16QAM      | 50      | 0         | 20.05                        | 20.08                 | 19.94                        | 19.29                    | 19.07                         | 19.80                  |                     |
| 20              | 16QAM      | 50      | 24        | 20.03                        | 20.06                 | 20.05                        | 20.18                    | 20.04                         | 19.95                  | 21                  |
| 20              | 16QAM      | 50      | 50        | 20.00                        | 20.02                 | 20.03                        | 20.12                    | 19.94                         | 20.02                  |                     |
| 20              | 16QAM      | 100     | 0         | 19.96                        | 19.97                 | 19.95                        | 20.10                    | 19.93                         | 19.96                  |                     |
| 20              | 16QAM      | 100     | 0         | 19.96                        | 19.97                 | 19.95                        | 20.10                    | 19.93                         | 19.96                  |                     |
| 20              | 64QAM      | 1       | 0         | 20.14                        | 20.15                 | 20.07                        | 19.78                    | 19.80                         | 19.55                  | 21                  |
| 20              | 64QAM      | 1       | 49        | 20.03                        | 20.01                 | 20.01                        | 20.18                    | 20.09                         | 19.86                  |                     |
| 20              | 64QAM      | 1       | 99        | 20.00                        | 20.00                 | 20.40                        | 19.80                    | 19.68                         | 19.91                  |                     |
| 20              | 64QAM      | 50      | 0         | 20.03                        | 20.06                 | 19.92                        | 20.00                    | 19.98                         | 19.78                  |                     |
| 20              | 64QAM      | 50      | 24        | 20.06                        | 20.07                 | 20.05                        | 20.22                    | 20.02                         | 19.93                  | 21                  |
| 20              | 64QAM      | 50      | 50        | 20.00                        | 20.01                 | 20.03                        | 20.13                    | 19.93                         | 20.00                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.99                        | 19.99                 | 19.94                        | 20.09                    | 19.92                         | 19.94                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.99                        | 19.99                 | 19.94                        | 20.09                    | 19.92                         | 19.94                  |                     |
| Channel         |            |         |           | 38765                        | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  |                     |
| Frequency (MHz) |            |         |           | 2507.5                       | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 19.80                        | 19.91                 | 19.58                        | 19.79                    | 19.76                         | 19.55                  | 21                  |
| 15              | QPSK       | 1       | 37        | 19.87                        | 19.88                 | 19.75                        | 19.97                    | 19.87                         | 19.80                  |                     |
| 15              | QPSK       | 1       | 74        | 19.85                        | 19.87                 | 19.60                        | 19.85                    | 19.63                         | 19.79                  |                     |
| 15              | QPSK       | 36      | 0         | 20.01                        | 20.02                 | 19.85                        | 19.98                    | 19.93                         | 19.80                  |                     |
| 15              | QPSK       | 36      | 20        | 20.03                        | 20.03                 | 19.98                        | 20.17                    | 20.07                         | 19.97                  | 21                  |
| 15              | QPSK       | 36      | 39        | 19.98                        | 19.98                 | 19.93                        | 20.11                    | 19.95                         | 19.97                  |                     |
| 15              | QPSK       | 75      | 0         | 19.96                        | 19.99                 | 19.91                        | 20.12                    | 19.99                         | 19.87                  |                     |
| 15              | 16QAM      | 1       | 0         | 20.26                        | 20.31                 | 20.03                        | 20.10                    | 20.14                         | 19.95                  |                     |
| 15              | 16QAM      | 1       | 37        | 20.22                        | 20.22                 | 20.40                        | 20.36                    | 20.26                         | 20.15                  | 21                  |
| 15              | 16QAM      | 1       | 74        | 20.14                        | 20.17                 | 20.11                        | 20.17                    | 20.03                         | 20.15                  |                     |
| 15              | 16QAM      | 36      | 0         | 20.00                        | 20.05                 | 19.87                        | 19.96                    | 19.94                         | 19.79                  |                     |
| 15              | 16QAM      | 36      | 20        | 19.99                        | 20.03                 | 19.98                        | 20.15                    | 20.05                         | 19.96                  |                     |
| 15              | 16QAM      | 36      | 39        | 19.98                        | 19.98                 | 19.92                        | 20.12                    | 19.98                         | 19.97                  | 21                  |
| 15              | 16QAM      | 75      | 0         | 20.01                        | 20.01                 | 19.98                        | 20.13                    | 20.04                         | 19.88                  |                     |
| 15              | 64QAM      | 1       | 0         | 20.11                        | 20.13                 | 19.82                        | 19.92                    | 19.96                         | 19.69                  |                     |
| 15              | 64QAM      | 1       | 37        | 20.07                        | 20.09                 | 20.14                        | 20.19                    | 20.11                         | 20.02                  |                     |
| 15              | 64QAM      | 1       | 74        | 20.01                        | 20.04                 | 20.00                        | 20.02                    | 19.88                         | 20.00                  | 21                  |
| 15              | 64QAM      | 36      | 0         | 20.04                        | 20.05                 | 19.88                        | 20.01                    | 19.98                         | 19.91                  |                     |
| 15              | 64QAM      | 36      | 20        | 20.06                        | 20.07                 | 20.02                        | 20.18                    | 20.08                         | 20.00                  |                     |
| 15              | 64QAM      | 36      | 39        | 20.03                        | 20.05                 | 19.94                        | 20.13                    | 19.97                         | 19.95                  |                     |
| 15              | 64QAM      | 75      | 0         | 20.00                        | 20.01                 | 19.94                        | 20.12                    | 19.99                         | 19.96                  |                     |
| Channel         |            |         |           | 38740                        | 39700                 | 40160                        | 40620                    | 41080                         | 41540                  |                     |
| Frequency (MHz) |            |         |           | 2505                         | 2501                  | 2547                         | 2593                     | 2639                          | 2685                   |                     |
| 10              | QPSK       | 1       | 0         | 19.71                        | 19.65                 | 19.39                        | 19.50                    | 19.42                         | 19.35                  | 21                  |
| 10              | QPSK       | 1       | 25        | 19.61                        | 19.62                 | 19.66                        | 19.75                    | 19.67                         | 19.61                  |                     |
| 10              | QPSK       | 1       | 49        | 19.67                        | 19.69                 | 19.54                        | 19.54                    | 19.50                         | 19.42                  |                     |
| 10              | QPSK       | 25      | 0         | 19.84                        | 19.85                 | 19.67                        | 19.63                    | 19.74                         | 19.67                  |                     |
| 10              | QPSK       | 25      | 12        | 19.84                        | 19.85                 | 19.84                        | 20.00                    | 19.81                         | 19.83                  | 21                  |
| 10              | QPSK       | 25      | 25        | 19.81                        | 19.82                 | 19.73                        | 19.89                    | 19.78                         | 19.70                  |                     |
| 10              | QPSK       | 50      | 0         | 19.77                        | 19.78                 | 19.79                        | 19.89                    | 19.75                         | 19.75                  |                     |
| 10              | 16QAM      | 1       | 0         | 20.06                        | 20.09                 | 19.74                        | 19.86                    | 19.81                         | 19.74                  |                     |
| 10              | 16QAM      | 1       | 25        | 20.01                        | 20.02                 | 20.04                        | 20.12                    | 20.01                         | 19.96                  | 21                  |
| 10              | 16QAM      | 1       | 49        | 19.97                        | 20.03                 | 19.76                        | 19.89                    | 19.79                         | 19.70                  |                     |
| 10              | 16QAM      | 25      | 0         | 19.87                        | 19.91                 | 19.73                        | 19.84                    | 19.83                         | 19.69                  |                     |
| 10              | 16QAM      | 25      | 12        | 19.88                        | 19.91                 | 19.92                        | 20.04                    | 19.90                         | 19.88                  |                     |
| 10              | 16QAM      | 25      | 25        | 19.85                        | 19.83                 | 19.80                        | 19.91                    | 19.85                         | 19.74                  | 21                  |
| 10              | 16QAM      | 50      | 0         | 19.82                        | 19.85                 | 19.83                        | 19.95                    | 19.79                         | 19.78                  |                     |
| 10              | 64QAM      | 1       | 0         | 19.96                        | 20.02                 | 19.66                        | 19.72                    | 19.67                         | 19.62                  |                     |
| 10              | 64QAM      | 1       | 25        | 19.96                        | 19.97                 | 20.05                        | 20.12                    | 20.04                         | 19.93                  |                     |
| 10              | 64QAM      | 1       | 49        | 19.89                        | 19.92                 | 19.76                        | 19.80                    | 19.71                         | 19.67                  | 21                  |
| 10              | 64QAM      | 25      | 0         | 19.93                        | 19.94                 | 19.79                        | 19.92                    | 19.79                         | 19.76                  |                     |
| 10              | 64QAM      | 25      | 12        | 19.96                        | 19.96                 | 19.95                        | 20.07                    | 19.91                         | 19.96                  |                     |
| 10              | 64QAM      | 25      | 25        | 19.89                        | 19.92                 | 19.83                        | 19.96                    | 19.88                         | 19.83                  |                     |
| 10              | 64QAM      | 50      | 0         | 19.83                        | 19.84                 | 19.81                        | 19.92                    | 19.76                         | 19.80                  |                     |
| Channel         |            |         |           | 38715                        | 38675                 | 40148                        | 40620                    | 41093                         | 41565                  |                     |
| Frequency (MHz) |            |         |           | 2502.5                       | 2498.5                | 2543.8                       | 2593                     | 2640.30                       | 2687.5                 |                     |
| 5               | QPSK       | 1       | 0         | 19.75                        | 19.71                 | 19.68                        | 19.78                    | 19.68                         | 19.67                  | 21                  |
| 5               | QPSK       | 1       | 12        | 19.68                        | 19.69                 | 19.68                        | 19.80                    | 19.71                         | 19.67                  |                     |
| 5               | QPSK       | 1       | 24        | 19.67                        | 19.69                 | 19.72                        | 19.78                    | 19.71                         | 19.60                  |                     |
| 5               | QPSK       | 12      | 0         | 19.85                        | 19.86                 | 19.80                        | 19.90                    | 19.84                         | 19.82                  |                     |
| 5               | QPSK       | 12      | 7         | 19.88                        | 19.91                 | 19.88                        | 20.03                    | 19.84                         | 19.83                  | 21                  |
| 5               | QPSK       | 12      | 13        | 19.87                        | 19.86                 | 19.86                        | 19.98                    | 19.85                         | 19.77                  |                     |
| 5               | QPSK       | 25      | 0         | 19.84                        | 19.83                 | 19.81                        | 19.95                    | 19.79                         | 19.78                  |                     |
| 5               | 16QAM      | 1       | 0         | 20.01                        | 20.07                 | 19.84                        | 20.02                    | 19.92                         | 19.90                  |                     |
| 5               | 16QAM      | 1       | 12        | 19.95                        | 19.95                 | 19.84                        | 20.07                    | 19.97                         | 19.85                  | 21                  |
| 5               | 16QAM      | 1       | 24        | 20.02                        | 20.04                 | 19.89                        | 20.09                    | 19.96                         | 19.84                  |                     |
| 5               | 16QAM      | 12      | 0         | 19.92                        | 19.93                 | 19.86                        | 19.94                    | 19.86                         | 19.85                  |                     |
| 5               | 16QAM      | 12      | 7         | 19.93                        | 19.94                 | 19.92                        | 20.03                    | 19.86                         | 19.87                  |                     |
| 5               | 16QAM      | 12      | 13        | 19.92                        | 19.92                 | 19.88                        | 20.02                    | 19.91                         | 19.84                  | 21                  |
| 5               | 16QAM      | 25      | 0         | 19.92                        | 19.90                 | 19.92                        | 20.04                    | 19.88                         | 19.86                  |                     |
| 5               | 64QAM      | 1       | 0         | 19.95                        | 19.93                 | 19.81                        | 19.92                    | 19.86                         | 19.85                  |                     |
| 5               | 64QAM      | 1       | 12        | 19.91                        | 19.92                 | 19.95                        | 20.02                    | 19.92                         | 19.89                  |                     |
| 5               | 64QAM      | 1       | 24        | 19.93                        | 19.96                 | 19.89                        | 20.00                    | 19.93                         | 19.82                  | 21                  |
| 5               | 64QAM      | 12      | 0         | 19.95                        | 19.95                 | 19.89                        | 19.95                    | 19.86                         | 19.88                  |                     |
| 5               | 64QAM      | 12      | 7         | 19.94                        | 19.96                 | 19.93                        | 20.05                    | 19.92                         | 19.90                  |                     |
| 5               | 64QAM      | 12      | 13        | 19.89                        | 19.94                 | 19.92                        | 20.04                    | 19.89                         | 19.85                  |                     |
| 5               | 64QAM      | 25      | 0         | 19.90                        | 19.90                 | 19.92                        | 20.02                    | 19.88                         | 19.87                  |                     |



| Band 38_Ant 2   |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 37650                 | 38000                    | 38150                  |                     |
| Frequency (MHz) |            |         |           | 2500                  | 2505                     | 2510                   |                     |
| 20              | QPSK       | 1       | 0         | 16.67                 | 16.62                    | 16.58                  | 17.5                |
| 20              | QPSK       | 1       | 49        | 16.70                 | 16.64                    | 16.60                  |                     |
| 20              | QPSK       | 1       | 99        | 16.67                 | 16.62                    | 16.57                  |                     |
| 20              | QPSK       | 50      | 0         | 16.57                 | 16.53                    | 16.48                  |                     |
| 20              | QPSK       | 50      | 24        | 16.78                 | 16.75                    | 16.60                  |                     |
| 20              | QPSK       | 50      | 50        | 16.70                 | 16.65                    | 16.58                  | 17.5                |
| 20              | QPSK       | 100     | 0         | 16.68                 | 16.65                    | 16.50                  |                     |
| 20              | 16QAM      | 1       | 0         | 16.80                 | 16.81                    | 16.76                  |                     |
| 20              | 16QAM      | 1       | 49        | 16.82                 | 16.78                    | 16.73                  |                     |
| 20              | 16QAM      | 1       | 99        | 16.82                 | 16.78                    | 16.71                  |                     |
| 20              | 16QAM      | 50      | 0         | 16.60                 | 16.56                    | 16.51                  | 17.5                |
| 20              | 16QAM      | 50      | 24        | 16.80                 | 16.74                    | 16.63                  |                     |
| 20              | 16QAM      | 50      | 50        | 16.70                 | 16.66                    | 16.61                  |                     |
| 20              | 16QAM      | 100     | 0         | 16.68                 | 16.65                    | 16.51                  |                     |
| 20              | 64QAM      | 1       | 0         | 16.51                 | 16.54                    | 16.48                  |                     |
| 20              | 64QAM      | 1       | 49        | 16.57                 | 16.50                    | 16.48                  | 17.5                |
| 20              | 64QAM      | 1       | 99        | 16.65                 | 16.51                    | 16.47                  |                     |
| 20              | 64QAM      | 50      | 0         | 16.61                 | 16.58                    | 16.53                  |                     |
| 20              | 64QAM      | 50      | 24        | 16.81                 | 16.78                    | 16.65                  |                     |
| 20              | 64QAM      | 50      | 50        | 16.72                 | 16.69                    | 16.61                  |                     |
| 20              | 64QAM      | 100     | 0         | 16.68                 | 16.65                    | 16.53                  |                     |
| Channel         |            |         |           | 37625                 | 38000                    | 38175                  |                     |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |
| 15              | QPSK       | 1       | 0         | 16.33                 | 16.60                    | 16.53                  | 17.5                |
| 15              | QPSK       | 1       | 37        | 16.64                 | 16.59                    | 16.57                  |                     |
| 15              | QPSK       | 1       | 74        | 16.65                 | 16.62                    | 16.58                  |                     |
| 15              | QPSK       | 36      | 0         | 16.46                 | 16.56                    | 16.50                  |                     |
| 15              | QPSK       | 36      | 20        | 16.63                 | 16.72                    | 16.58                  |                     |
| 15              | QPSK       | 36      | 39        | 16.73                 | 16.84                    | 16.59                  | 17.5                |
| 15              | QPSK       | 75      | 0         | 16.55                 | 16.67                    | 16.51                  |                     |
| 15              | 16QAM      | 1       | 0         | 16.78                 | 16.79                    | 16.71                  |                     |
| 15              | 16QAM      | 1       | 37        | 16.78                 | 16.71                    | 16.69                  |                     |
| 15              | 16QAM      | 1       | 74        | 16.79                 | 16.77                    | 16.69                  |                     |
| 15              | 16QAM      | 36      | 0         | 16.41                 | 16.52                    | 16.46                  | 17.5                |
| 15              | 16QAM      | 36      | 20        | 16.59                 | 16.70                    | 16.55                  |                     |
| 15              | 16QAM      | 36      | 39        | 16.69                 | 16.83                    | 16.55                  |                     |
| 15              | 16QAM      | 75      | 0         | 16.57                 | 16.68                    | 16.53                  |                     |
| 15              | 64QAM      | 1       | 0         | 16.64                 | 16.57                    | 16.40                  |                     |
| 15              | 64QAM      | 1       | 37        | 16.53                 | 16.49                    | 16.48                  | 17.5                |
| 15              | 64QAM      | 1       | 74        | 16.53                 | 16.49                    | 16.44                  |                     |
| 15              | 64QAM      | 36      | 0         | 16.45                 | 16.59                    | 16.53                  |                     |
| 15              | 64QAM      | 36      | 20        | 16.63                 | 16.72                    | 16.62                  |                     |
| 15              | 64QAM      | 36      | 39        | 16.71                 | 16.84                    | 16.61                  |                     |
| 15              | 64QAM      | 75      | 0         | 16.58                 | 16.69                    | 16.55                  |                     |
| Channel         |            |         |           | 37600                 | 38000                    | 38200                  |                     |
| Frequency (MHz) |            |         |           | 2575                  | 2595                     | 2615                   |                     |
| 10              | QPSK       | 1       | 0         | 16.97                 | 16.26                    | 16.19                  | 17.5                |
| 10              | QPSK       | 1       | 25        | 16.30                 | 16.29                    | 16.22                  |                     |
| 10              | QPSK       | 1       | 49        | 16.11                 | 16.37                    | 16.24                  |                     |
| 10              | QPSK       | 25      | 0         | 16.35                 | 16.34                    | 16.26                  |                     |
| 10              | QPSK       | 25      | 12        | 16.56                 | 16.53                    | 16.37                  |                     |
| 10              | QPSK       | 25      | 25        | 16.47                 | 16.45                    | 16.36                  | 17.5                |
| 10              | QPSK       | 50      | 0         | 16.47                 | 16.44                    | 16.29                  |                     |
| 10              | 16QAM      | 1       | 0         | 16.40                 | 16.70                    | 16.64                  |                     |
| 10              | 16QAM      | 1       | 25        | 16.71                 | 16.66                    | 16.63                  |                     |
| 10              | 16QAM      | 1       | 49        | 16.48                 | 16.71                    | 16.66                  |                     |
| 10              | 16QAM      | 25      | 0         | 16.37                 | 16.34                    | 16.30                  | 17.5                |
| 10              | 16QAM      | 25      | 12        | 16.55                 | 16.56                    | 16.38                  |                     |
| 10              | 16QAM      | 25      | 25        | 16.48                 | 16.45                    | 16.40                  |                     |
| 10              | 16QAM      | 50      | 0         | 16.49                 | 16.47                    | 16.39                  |                     |
| 10              | 64QAM      | 1       | 0         | 16.25                 | 16.54                    | 16.51                  |                     |
| 10              | 64QAM      | 1       | 25        | 16.63                 | 16.57                    | 16.56                  | 17.5                |
| 10              | 64QAM      | 1       | 49        | 16.38                 | 16.59                    | 16.53                  |                     |
| 10              | 64QAM      | 25      | 0         | 16.42                 | 16.43                    | 16.36                  |                     |
| 10              | 64QAM      | 25      | 12        | 16.63                 | 16.60                    | 16.47                  |                     |
| 10              | 64QAM      | 25      | 25        | 16.56                 | 16.54                    | 16.46                  |                     |
| 10              | 64QAM      | 50      | 0         | 16.49                 | 16.50                    | 16.32                  |                     |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  |                     |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |
| 5               | QPSK       | 1       | 0         | 16.23                 | 16.25                    | 16.14                  | 17.5                |
| 5               | QPSK       | 1       | 12        | 16.38                 | 16.37                    | 16.31                  |                     |
| 5               | QPSK       | 1       | 24        | 16.29                 | 16.30                    | 16.21                  |                     |
| 5               | QPSK       | 12      | 0         | 16.51                 | 16.41                    | 16.37                  |                     |
| 5               | QPSK       | 12      | 7         | 16.57                 | 16.54                    | 16.48                  |                     |
| 5               | QPSK       | 12      | 13        | 16.54                 | 16.54                    | 16.43                  | 17.5                |
| 5               | QPSK       | 25      | 0         | 16.52                 | 16.48                    | 16.43                  |                     |
| 5               | 16QAM      | 1       | 0         | 16.54                 | 16.56                    | 16.48                  |                     |
| 5               | 16QAM      | 1       | 12        | 16.64                 | 16.66                    | 16.60                  |                     |
| 5               | 16QAM      | 1       | 24        | 16.65                 | 16.68                    | 16.61                  |                     |
| 5               | 16QAM      | 12      | 0         | 16.52                 | 16.47                    | 16.40                  | 17.5                |
| 5               | 16QAM      | 12      | 7         | 16.56                 | 16.56                    | 16.52                  |                     |
| 5               | 16QAM      | 12      | 13        | 16.54                 | 16.52                    | 16.47                  |                     |
| 5               | 16QAM      | 25      | 0         | 16.55                 | 16.56                    | 16.47                  |                     |
| 5               | 64QAM      | 1       | 0         | 16.49                 | 16.47                    | 16.41                  |                     |
| 5               | 64QAM      | 1       | 12        | 16.59                 | 16.59                    | 16.51                  | 17.5                |
| 5               | 64QAM      | 1       | 24        | 16.58                 | 16.57                    | 16.52                  |                     |
| 5               | 64QAM      | 12      | 0         | 16.53                 | 16.47                    | 16.40                  |                     |
| 5               | 64QAM      | 12      | 7         | 16.62                 | 16.59                    | 16.54                  |                     |
| 5               | 64QAM      | 12      | 13        | 16.60                 | 16.57                    | 16.50                  |                     |
| 5               | 64QAM      | 25      | 0         | 16.59                 | 16.56                    | 16.52                  |                     |

| Band 41_Ant 2   |            |         |           |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2500                | 2543.5                     | 2587                   | 2630.5                      | 2674                 |                     |
| 20              | QPSK       | 1       | 0         | 17.67               | 17.68                      | 17.68                  | 17.68                       | 17.68                | 18.5                |
| 20              | QPSK       | 1       | 49        | 17.84               | 17.69                      | 17.85                  | 17.66                       | 17.70                |                     |
| 20              | QPSK       | 1       | 99        | 17.65               | 17.83                      | 17.55                  | 17.29                       | 17.59                |                     |
| 20              | QPSK       | 50      | 0         | 17.93               | 17.70                      | 17.71                  | 17.66                       | 17.58                |                     |
| 20              | QPSK       | 50      | 24        | 17.79               | 17.79                      | 17.95                  | 17.72                       | 17.74                |                     |
| 20              | QPSK       | 50      | 0         | 17.78               | 17.84                      | 17.86                  | 17.84                       | 17.81                | 18.5                |
| 20              | QPSK       | 100     | 0         | 17.70               | 17.67                      | 17.97                  | 17.80                       | 17.67                |                     |
| 20              | 16QAM      | 1       | 0         | 17.86               | 17.72                      | 17.80                  | 17.46                       | 17.43                |                     |
| 20              | 16QAM      | 1       | 49        | 17.76               | 17.72                      | 17.93                  | 17.73                       | 17.82                |                     |
| 20              | 16QAM      | 1       | 99        | 17.71               | 17.83                      | 17.60                  | 17.35                       | 17.72                |                     |
| 20              | 16QAM      | 50      | 0         | 17.82               | 17.76                      | 17.74                  | 17.72                       | 17.63                | 18.5                |
| 20              | 16QAM      | 50      | 24        | 17.81               | 17.79                      | 17.93                  | 17.80                       | 17.78                |                     |
| 20              | 16QAM      | 50      | 50        | 17.76               | 17.84                      | 17.88                  | 17.72                       | 17.84                |                     |
| 20              | 16QAM      | 100     | 0         | 17.70               | 17.68                      | 17.84                  | 17.67                       | 17.70                |                     |
| 20              | 64QAM      | 1       | 0         | 17.64               | 17.55                      | 17.27                  | 17.44                       | 17.18                |                     |
| 20              | 64QAM      | 1       | 49        | 17.55               | 17.66                      | 17.74                  | 17.70                       | 17.56                | 18.5                |
| 20              | 64QAM      | 1       | 99        | 17.52               | 17.91                      | 17.38                  | 17.30                       | 17.53                |                     |
| 20              | 64QAM      | 50      | 0         | 17.85               | 17.74                      | 17.76                  | 17.72                       | 17.63                |                     |
| 20              | 64QAM      | 50      | 24        | 17.82               | 17.86                      | 17.98                  | 17.79                       | 17.80                |                     |
| 20              | 64QAM      | 50      | 50        | 17.77               | 17.84                      | 17.91                  | 17.72                       | 17.87                |                     |
| 20              | 64QAM      | 100     | 0         | 17.74               | 17.73                      | 17.86                  | 17.68                       | 17.71                | 18.5                |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41055                       | 41515                |                     |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |
| 15              | QPSK       | 1       | 0         | 17.72               | 17.47                      | 17.56                  | 17.55                       | 17.36                | 18.5                |
| 15              | QPSK       | 1       | 37        | 17.66               | 17.71                      | 17.76                  | 17.70                       | 17.65                |                     |
| 15              | QPSK       | 1       | 74        | 17.65               | 17.51                      | 17.67                  | 17.43                       | 17.63                |                     |
| 15              | QPSK       | 36      | 0         | 17.80               | 17.61                      | 17.74                  | 17.67                       | 17.61                |                     |
| 15              | QPSK       | 36      | 20        | 17.77               | 17.78                      | 17.89                  | 17.79                       | 17.82                |                     |
| 15              | QPSK       | 36      | 39        | 17.78               | 17.70                      | 17.88                  | 17.68                       | 17.80                | 18.5                |
| 15              | QPSK       | 75      | 0         | 17.74               | 17.73                      | 17.62                  | 17.72                       | 17.67                |                     |
| 15              | 16QAM      | 1       | 49        | 17.80               | 17.54                      | 17.74                  | 17.63                       | 17.60                |                     |
| 15              | 16QAM      | 1       | 37        | 17.72               | 17.65                      | 17.92                  | 17.75                       | 17.87                |                     |
| 15              | 16QAM      | 1       | 74        | 17.75               | 17.61                      | 17.76                  | 17.57                       | 17.84                |                     |
| 15              | 16QAM      | 36      | 0         | 17.77               | 17.59                      | 17.72                  | 17.66                       | 17.60                | 18.5                |
| 15              | 16QAM      | 36      | 20        | 17.74               | 17.72                      | 17.69                  | 17.76                       | 17.81                |                     |
| 15              | 16QAM      | 36      | 39        | 17.76               | 17.65                      | 17.84                  | 17.68                       | 17.79                |                     |
| 15              | 16QAM      | 75      | 0         | 17.75               | 17.69                      | 17.88                  | 17.78                       | 17.70                |                     |
| 15              | 64QAM      | 1       | 0         | 17.69               | 17.12                      | 17.45                  | 17.47                       | 17.34                |                     |
| 15              | 64QAM      | 1       | 37        | 17.67               | 17.74                      | 17.70                  | 17.66                       | 17.65                | 18.5                |
| 15              | 64QAM      | 1       | 74        | 17.55               | 17.62                      | 17.55                  | 17.46                       | 17.68                |                     |
| 15              | 64QAM      | 36      | 0         | 17.83               | 17.68                      | 17.76                  | 17.73                       | 17.68                |                     |
| 15              | 64QAM      | 36      | 20        | 17.84               | 17.78                      | 17.96                  | 17.84                       | 17.85                |                     |
| 15              | 64QAM      | 36      | 39        | 17.76               | 17.72                      | 17.91                  | 17.73                       | 17.86                |                     |
| 15              | 64QAM      | 75      | 0         | 17.75               | 17.73                      | 17.91                  | 17.79                       | 17.72                | 18.5                |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |
| 10              | QPSK       | 1       | 0         | 17.49               | 17.13                      | 17.31                  | 17.15                       | 17.19                | 18.5                |
| 10              | QPSK       | 1       | 25        | 17.36               | 17.35                      | 17.51                  | 17.40                       | 17.44                |                     |
| 10              | QPSK       | 1       | 49        | 17.38               | 17.15                      | 17.26                  | 17.22                       | 17.19                |                     |
| 10              | QPSK       | 25      | 0         | 17.64               | 17.50                      | 17.58                  | 17.47                       | 17.51                |                     |
| 10              | QPSK       | 25      | 12        | 17.63               | 17.62                      | 17.75                  | 17.54                       | 17.66                |                     |
| 10              | QPSK       | 25      | 25        | 17.61               | 17.55                      | 17.62                  | 17.53                       | 17.56                | 18.5                |
| 10              | QPSK       | 50      | 0         | 17.65               | 17.54                      | 17.65                  | 17.45                       | 17.57                |                     |
| 10              | 16QAM      | 1       | 0         | 17.83               | 17.55                      | 17.69                  | 17.58                       | 17.57                |                     |
| 10              | 16QAM      | 1       | 25        | 17.73               | 17.76                      | 17.91                  | 17.76                       | 17.83                |                     |
| 10              | 16QAM      | 1       | 49        | 17.76               | 17.55                      | 17.67                  | 17.54                       | 17.55                |                     |
| 10              | 16QAM      | 25      | 0         | 17.65               | 17.46                      | 17.62                  | 17.55                       | 17.55                | 18.5                |
| 10              | 16QAM      | 25      | 12        | 17.66               | 17.64                      | 17.79                  | 17.65                       | 17.72                |                     |
| 10              | 16QAM      | 25      | 25        | 17.62               | 17.53                      | 17.66                  | 17.62                       | 17.60                |                     |
| 10              | 16QAM      | 50      | 0         | 17.66               | 17.59                      | 17.66                  | 17.54                       | 17.62                |                     |
| 10              | 64QAM      | 1       | 0         | 17.78               | 17.29                      | 17.55                  | 17.48                       | 17.47                |                     |
| 10              | 64QAM      | 1       | 25        | 17.70               | 17.97                      | 17.87                  | 17.88                       | 17.79                | 18.5                |
| 10              | 64QAM      | 1       | 49        | 17.70               | 17.61                      | 17.53                  | 17.50                       | 17.53                |                     |
| 10              | 64QAM      | 25      | 0         | 17.71               | 17.62                      | 17.67                  | 17.57                       | 17.64                |                     |
| 10              | 64QAM      | 25      | 12        | 17.74               | 17.74                      | 17.86                  | 17.86                       | 17.61                |                     |
| 10              | 64QAM      | 25      | 25        | 17.72               | 17.65                      | 17.74                  | 17.64                       | 17.66                |                     |
| 10              | 64QAM      | 50      | 0         | 17.65               | 17.61                      | 17.71                  | 17.53                       | 17.60                | 18.5                |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41093                       | 41565                |                     |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.39                     | 2687.5               |                     |
| 5               | QPSK       | 1       | 0         | 17.68               | 17.33                      | 17.48                  | 17.36                       | 17.48                | 18.5                |
| 5               | QPSK       | 1       | 12        | 17.43               | 17.40                      | 17.57                  | 17.45                       | 17.50                |                     |
| 5               | QPSK       | 1       | 24        | 17.43               | 17.39                      | 17.51                  | 17.41                       | 17.43                |                     |
| 5               | QPSK       | 12      | 0         | 17.62               | 17.57                      | 17.65                  | 17.54                       | 17.65                |                     |
| 5               | QPSK       | 12      | 7         | 17.67               | 17.65                      | 17.71                  | 17.58                       | 17.65                |                     |
| 5               | QPSK       | 12      | 13        | 17.63               | 17.64                      | 17.70                  | 17.57                       | 17.61                | 18.5                |
| 5               | QPSK       | 25      | 0         | 17.58               | 17.61                      | 17.66                  | 17.55                       | 17.59                |                     |
| 5               | 16QAM      | 1       | 0         | 17.79               | 17.77                      | 17.76                  | 17.69                       | 17.79                |                     |
| 5               | 16QAM      | 1       | 12        | 17.69               | 17.84                      | 17.79                  | 17.74                       | 17.69                |                     |
| 5               | 16QAM      | 1       | 24        | 17.72               | 17.80                      | 17.79                  | 17.74                       | 17.68                |                     |
| 5               | 16QAM      | 12      | 0         | 17.66               | 17.63                      | 17.72                  | 17.59                       | 17.70                | 18.5                |
| 5               | 16QAM      | 12      | 7         | 17.70               | 17.70                      | 17.76                  | 17.60                       | 17.70                |                     |
| 5               | 16QAM      | 12      | 13        | 17.62               | 17.68                      | 17.76                  | 17.62                       | 17.65                |                     |
| 5               | 16QAM      | 25      | 0         | 17.64               | 17.64                      | 17.76                  | 17.63                       | 17.70                |                     |
| 5               | 64QAM      | 1       | 0         | 17.72               | 17.64                      | 17.73                  | 17.61                       | 17.73                |                     |
| 5               | 64QAM      | 1       | 12        | 17.68               | 17.72                      | 17.76                  | 17.72                       | 17.71                | 18.5                |
| 5               | 64QAM      | 1       | 24        | 17.69               | 17.75                      | 17.77                  | 17.69                       | 17.69                |                     |
| 5               | 64QAM      | 12      | 0         | 17.69               | 17.66                      | 17.71                  | 17.64                       | 17.70                |                     |
| 5               | 64QAM      | 12      | 7         | 17.70               | 17.71                      | 17.82                  | 17.65                       | 17.73                |                     |
| 5               | 64QAM      | 12      | 13        | 17.66               | 17.70                      | 17.78                  | 17.68                       | 17.69                |                     |
| 5               | 64QAM      | 25      | 0         | 17.65               | 17.76                      | 17.81                  | 17.64                       | 17.70                |                     |



| Band 41_Ant 2   |            |         |           |                            |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|----------------------------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | for IC Power Low Ch / Freq | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 38790                      | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2510                       | 2508                | 2449.5                     | 2593                   | 2634.5                      | 2680                 |                     |
| 20              | QPSK       | 1       | 0         | 17.60                      | 17.63               | 17.57                      | 17.55                  | 17.53                       | 17.18                | 18.5                |
| 20              | QPSK       | 1       | 49        | 17.53                      | 17.56               | 17.55                      | 17.71                  | 17.56                       | 17.59                |                     |
| 20              | QPSK       | 1       | 99        | 17.54                      | 17.53               | 17.62                      | 17.44                  | 17.16                       | 17.54                |                     |
| 20              | QPSK       | 50      | 0         | 17.76                      | 17.78               | 17.66                      | 17.71                  | 17.64                       | 17.58                |                     |
| 20              | QPSK       | 50      | 24        | 17.76                      | 17.75               | 17.78                      | 17.91                  | 17.71                       | 17.74                | 18.5                |
| 20              | QPSK       | 50      | 50        | 17.69                      | 17.74               | 17.62                      | 17.85                  | 17.62                       | 17.81                |                     |
| 20              | QPSK       | 100     | 0         | 17.70                      | 17.70               | 17.65                      | 17.81                  | 17.60                       | 17.66                |                     |
| 20              | 16QAM      | 1       | 0         | 17.96                      | 17.98               | 17.90                      | 17.77                  | 17.65                       | 17.65                |                     |
| 20              | 16QAM      | 1       | 49        | 17.88                      | 17.93               | 17.91                      | 18.12                  | 17.94                       | 18.04                | 18.5                |
| 20              | 16QAM      | 1       | 99        | 17.84                      | 17.87               | 18.01                      | 17.76                  | 17.51                       | 17.91                |                     |
| 20              | 16QAM      | 50      | 0         | 17.79                      | 17.81               | 17.71                      | 17.72                  | 17.72                       | 17.63                |                     |
| 20              | 16QAM      | 50      | 24        | 17.79                      | 17.79               | 17.78                      | 17.94                  | 17.79                       | 17.79                |                     |
| 20              | 16QAM      | 50      | 50        | 17.78                      | 17.77               | 17.84                      | 17.90                  | 17.72                       | 17.85                | 18.5                |
| 20              | 16QAM      | 100     | 0         | 17.69                      | 17.70               | 17.68                      | 17.83                  | 17.67                       | 17.70                |                     |
| 20              | 64QAM      | 1       | 0         | 17.88                      | 17.89               | 17.95                      | 17.56                  | 17.64                       | 17.43                |                     |
| 20              | 64QAM      | 1       | 49        | 17.76                      | 17.83               | 17.86                      | 17.96                  | 17.63                       | 17.85                |                     |
| 20              | 64QAM      | 1       | 99        | 17.67                      | 17.76               | 18.11                      | 17.62                  | 17.53                       | 17.78                | 18.5                |
| 20              | 64QAM      | 50      | 0         | 17.80                      | 17.80               | 17.71                      | 17.78                  | 17.72                       | 17.63                |                     |
| 20              | 64QAM      | 50      | 24        | 17.81                      | 17.83               | 17.85                      | 17.95                  | 17.78                       | 17.80                |                     |
| 20              | 64QAM      | 50      | 50        | 17.76                      | 17.78               | 17.83                      | 17.89                  | 17.70                       | 17.86                |                     |
| 20              | 64QAM      | 100     | 0         | 17.70                      | 17.74               | 17.73                      | 17.87                  | 17.68                       | 17.71                | 18.5                |
| Channel         |            |         |           | 38765                      | 39725               | 40173                      | 40620                  | 41068                       | 41515                |                     |
| Frequency (MHz) |            |         |           | 2507.5                     | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |
| 15              | QPSK       | 1       | 0         | 17.68                      | 17.68               | 17.47                      | 17.52                  | 17.50                       | 17.33                | 18.5                |
| 15              | QPSK       | 1       | 37        | 17.61                      | 17.63               | 17.64                      | 17.75                  | 17.65                       | 17.63                |                     |
| 15              | QPSK       | 1       | 74        | 17.64                      | 17.61               | 17.47                      | 17.63                  | 17.39                       | 17.58                |                     |
| 15              | QPSK       | 36      | 0         | 17.61                      | 17.80               | 17.61                      | 17.72                  | 17.65                       | 17.62                |                     |
| 15              | QPSK       | 36      | 20        | 17.76                      | 17.78               | 17.77                      | 17.90                  | 17.78                       | 17.81                | 18.5                |
| 15              | QPSK       | 36      | 39        | 17.77                      | 17.79               | 17.68                      | 17.86                  | 17.68                       | 17.79                |                     |
| 15              | QPSK       | 75      | 0         | 17.74                      | 17.74               | 17.73                      | 17.83                  | 17.69                       | 17.66                |                     |
| 15              | 16QAM      | 1       | 0         | 17.98                      | 18.00               | 17.67                      | 17.89                  | 17.63                       | 17.75                |                     |
| 15              | 16QAM      | 1       | 37        | 17.93                      | 17.94               | 17.85                      | 18.08                  | 17.92                       | 17.99                | 18.5                |
| 15              | 16QAM      | 1       | 74        | 17.86                      | 17.89               | 17.72                      | 17.95                  | 17.69                       | 17.99                |                     |
| 15              | 16QAM      | 36      | 0         | 17.76                      | 17.77               | 17.57                      | 17.71                  | 17.67                       | 17.62                |                     |
| 15              | 16QAM      | 36      | 20        | 17.76                      | 17.79               | 17.70                      | 17.88                  | 17.78                       | 17.84                |                     |
| 15              | 16QAM      | 36      | 39        | 17.75                      | 17.79               | 17.66                      | 17.85                  | 17.71                       | 17.81                | 18.5                |
| 15              | 16QAM      | 75      | 0         | 17.73                      | 17.75               | 17.73                      | 17.87                  | 17.75                       | 17.68                |                     |
| 15              | 64QAM      | 1       | 0         | 17.82                      | 17.85               | 17.70                      | 17.66                  | 17.70                       | 17.57                |                     |
| 15              | 64QAM      | 1       | 37        | 17.82                      | 17.86               | 17.97                      | 17.96                  | 17.89                       | 17.85                |                     |
| 15              | 64QAM      | 1       | 74        | 17.77                      | 17.82               | 17.81                      | 17.76                  | 17.70                       | 17.69                | 18.5                |
| 15              | 64QAM      | 36      | 0         | 17.82                      | 17.85               | 17.68                      | 17.79                  | 17.71                       | 17.68                |                     |
| 15              | 64QAM      | 36      | 20        | 17.81                      | 17.81               | 17.82                      | 17.96                  | 17.83                       | 17.84                |                     |
| 15              | 64QAM      | 36      | 39        | 17.80                      | 17.80               | 17.72                      | 17.91                  | 17.73                       | 17.85                |                     |
| 15              | 64QAM      | 75      | 0         | 17.74                      | 17.77               | 17.73                      | 17.89                  | 17.78                       | 17.70                | 18.5                |
| Channel         |            |         |           | 38740                      | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |
| Frequency (MHz) |            |         |           | 2492                       | 2491                | 2547                       | 2593                   | 2639                        | 2685                 |                     |
| 10              | QPSK       | 1       | 0         | 17.45                      | 17.49               | 17.08                      | 17.21                  | 17.08                       | 17.18                | 18.5                |
| 10              | QPSK       | 1       | 25        | 17.33                      | 17.35               | 17.36                      | 17.49                  | 17.36                       | 17.43                |                     |
| 10              | QPSK       | 1       | 49        | 17.41                      | 17.36               | 17.15                      | 17.31                  | 17.12                       | 17.27                |                     |
| 10              | QPSK       | 25      | 0         | 17.57                      | 17.61               | 17.46                      | 17.57                  | 17.45                       | 17.48                |                     |
| 10              | QPSK       | 25      | 12        | 17.69                      | 17.61               | 17.64                      | 17.70                  | 17.55                       | 17.65                | 18.5                |
| 10              | QPSK       | 25      | 25        | 17.59                      | 17.59               | 17.53                      | 17.62                  | 17.51                       | 17.52                |                     |
| 10              | QPSK       | 50      | 0         | 17.52                      | 17.51               | 17.52                      | 17.63                  | 17.43                       | 17.56                |                     |
| 10              | 16QAM      | 1       | 0         | 17.82                      | 17.80               | 17.49                      | 17.62                  | 17.52                       | 17.55                |                     |
| 10              | 16QAM      | 1       | 25        | 17.70                      | 17.74               | 17.77                      | 17.87                  | 17.77                       | 17.75                | 18.5                |
| 10              | 16QAM      | 1       | 49        | 17.71                      | 17.71               | 17.52                      | 17.63                  | 17.50                       | 17.52                |                     |
| 10              | 16QAM      | 25      | 0         | 17.65                      | 17.63               | 17.47                      | 17.59                  | 17.53                       | 17.54                |                     |
| 10              | 16QAM      | 25      | 12        | 17.65                      | 17.64               | 17.64                      | 17.76                  | 17.62                       | 17.71                |                     |
| 10              | 16QAM      | 25      | 25        | 17.59                      | 17.61               | 17.51                      | 17.65                  | 17.60                       | 17.58                | 18.5                |
| 10              | 16QAM      | 50      | 0         | 17.55                      | 17.56               | 17.56                      | 17.67                  | 17.53                       | 17.62                |                     |
| 10              | 64QAM      | 1       | 0         | 17.73                      | 17.75               | 17.47                      | 17.59                  | 17.46                       | 17.44                |                     |
| 10              | 64QAM      | 1       | 25        | 17.66                      | 17.74               | 17.95                      | 17.81                  | 17.84                       | 17.81                |                     |
| 10              | 64QAM      | 1       | 49        | 17.66                      | 17.68               | 17.59                      | 17.54                  | 17.51                       | 17.49                | 18.5                |
| 10              | 64QAM      | 25      | 0         | 17.70                      | 17.73               | 17.53                      | 17.68                  | 17.57                       | 17.61                |                     |
| 10              | 64QAM      | 25      | 12        | 17.71                      | 17.74               | 17.75                      | 17.86                  | 17.68                       | 17.74                |                     |
| 10              | 64QAM      | 25      | 25        | 17.66                      | 17.70               | 17.60                      | 17.73                  | 17.61                       | 17.64                |                     |
| 10              | 64QAM      | 50      | 0         | 17.56                      | 17.57               | 17.58                      | 17.68                  | 17.50                       | 17.61                | 18.5                |
| Channel         |            |         |           | 38715                      | 38675               | 40148                      | 40620                  | 41093                       | 41565                |                     |
| Frequency (MHz) |            |         |           | 2502.5                     | 2498.5              | 2543.8                     | 2593                   | 2640.30                     | 2687.5               |                     |
| 5               | QPSK       | 1       | 0         | 17.43                      | 17.45               | 17.26                      | 17.50                  | 17.54                       | 17.67                | 18.5                |
| 5               | QPSK       | 1       | 12        | 17.41                      | 17.42               | 17.39                      | 17.57                  | 17.42                       | 17.46                |                     |
| 5               | QPSK       | 1       | 24        | 17.38                      | 17.41               | 17.37                      | 17.53                  | 17.37                       | 17.43                |                     |
| 5               | QPSK       | 12      | 0         | 17.59                      | 17.63               | 17.55                      | 17.66                  | 17.51                       | 17.65                |                     |
| 5               | QPSK       | 12      | 7         | 17.65                      | 17.64               | 17.63                      | 17.74                  | 17.54                       | 17.67                | 18.5                |
| 5               | QPSK       | 12      | 13        | 17.56                      | 17.57               | 17.61                      | 17.73                  | 17.58                       | 17.64                |                     |
| 5               | QPSK       | 25      | 0         | 17.59                      | 17.56               | 17.59                      | 17.68                  | 17.51                       | 17.61                |                     |
| 5               | 16QAM      | 1       | 0         | 17.74                      | 17.80               | 17.75                      | 17.76                  | 17.70                       | 17.70                |                     |
| 5               | 16QAM      | 1       | 12        | 17.71                      | 17.69               | 17.62                      | 17.78                  | 17.75                       | 17.67                | 18.5                |
| 5               | 16QAM      | 1       | 24        | 17.75                      | 17.74               | 17.82                      | 17.83                  | 17.72                       | 17.68                |                     |
| 5               | 16QAM      | 12      | 0         | 17.64                      | 17.63               | 17.59                      | 17.72                  | 17.56                       | 17.68                |                     |
| 5               | 16QAM      | 12      | 7         | 17.67                      | 17.68               | 17.71                      | 17.80                  | 17.58                       | 17.67                |                     |
| 5               | 16QAM      | 12      | 13        | 17.62                      | 17.63               | 17.64                      | 17.70                  | 17.63                       | 17.65                | 18.5                |
| 5               | 16QAM      | 25      | 0         | 17.60                      | 17.65               | 17.63                      | 17.77                  | 17.60                       | 17.70                |                     |
| 5               | 64QAM      | 1       | 0         | 17.65                      | 17.66               | 17.61                      | 17.70                  | 17.64                       | 17.70                |                     |
| 5               | 64QAM      | 1       | 12        | 17.67                      | 17.65               | 17.72                      | 17.78                  | 17.70                       | 17.71                |                     |
| 5               | 64QAM      | 1       | 24        | 17.66                      | 17.66               | 17.67                      | 17.78                  | 17.72                       | 17.65                | 18.5                |
| 5               | 64QAM      | 12      | 0         | 17.64                      | 17.70               | 17.60                      | 17.71                  | 17.62                       | 17.72                |                     |
| 5               | 64QAM      | 12      | 7         | 17.67                      | 17.70               | 17.71                      | 17.82                  | 17.66                       | 17.75                |                     |
| 5               | 64QAM      | 12      | 13        | 17.63                      | 17.64               | 17.67                      | 17.79                  | 17.67                       | 17.72                |                     |
| 5               | 64QAM      | 25      | 0         | 17.65                      | 17.66               | 17.66                      | 17.78                  | 17.63                       | 17.71                |                     |





| Band 38_Ant 2   |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 37650                 | 38000                    | 38150                  |                     |
| Frequency (MHz) |            |         |           | 2568                  | 2595                     | 2610                   |                     |
| 20              | QPSK       | 1       | 0         | 13.54                 | 13.60                    | 13.58                  | 14.5                |
| 20              | QPSK       | 1       | 49        | 13.62                 | 13.61                    | 13.58                  |                     |
| 20              | QPSK       | 1       | 89        | 13.63                 | 13.63                    | 13.57                  |                     |
| 20              | QPSK       | 50      | 0         | 13.60                 | 13.61                    | 13.58                  |                     |
| 20              | QPSK       | 50      | 24        | 13.71                 | 13.65                    | 13.60                  | 14.5                |
| 20              | QPSK       | 50      | 50        | 13.61                 | 13.58                    | 13.55                  |                     |
| 20              | QPSK       | 100     | 0         | 13.66                 | 13.58                    | 13.53                  |                     |
| 20              | 16QAM      | 1       | 0         | 13.66                 | 13.68                    | 13.63                  |                     |
| 20              | 16QAM      | 1       | 49        | 13.67                 | 13.66                    | 13.64                  | 14.5                |
| 20              | 16QAM      | 1       | 89        | 13.69                 | 13.69                    | 13.63                  |                     |
| 20              | 16QAM      | 50      | 0         | 13.60                 | 13.57                    | 13.57                  |                     |
| 20              | 16QAM      | 50      | 24        | 13.70                 | 13.61                    | 13.60                  |                     |
| 20              | 16QAM      | 50      | 50        | 13.61                 | 13.60                    | 13.58                  | 14.5                |
| 20              | 16QAM      | 100     | 0         | 13.63                 | 13.56                    | 13.52                  |                     |
| 20              | 64QAM      | 1       | 0         | 13.44                 | 13.46                    | 13.42                  |                     |
| 20              | 64QAM      | 1       | 49        | 13.50                 | 13.51                    | 13.43                  |                     |
| 20              | 64QAM      | 1       | 89        | 13.53                 | 13.49                    | 13.45                  | 14.5                |
| 20              | 64QAM      | 50      | 0         | 13.61                 | 13.59                    | 13.55                  |                     |
| 20              | 64QAM      | 50      | 24        | 13.85                 | 13.80                    | 13.64                  |                     |
| 20              | 64QAM      | 50      | 50        | 13.72                 | 13.68                    | 13.62                  |                     |
| 20              | 64QAM      | 100     | 0         | 13.70                 | 13.66                    | 13.54                  |                     |
| Channel         |            |         |           | 37625                 | 38000                    | 38175                  |                     |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |
| 15              | QPSK       | 1       | 0         | 13.55                 | 13.56                    | 13.53                  | 14.5                |
| 15              | QPSK       | 1       | 37        | 13.58                 | 13.58                    | 13.53                  |                     |
| 15              | QPSK       | 1       | 74        | 13.60                 | 13.60                    | 13.59                  |                     |
| 15              | QPSK       | 36      | 0         | 13.64                 | 13.63                    | 13.58                  |                     |
| 15              | QPSK       | 36      | 20        | 13.77                 | 13.64                    | 13.69                  | 14.5                |
| 15              | QPSK       | 36      | 39        | 13.66                 | 13.64                    | 13.60                  |                     |
| 15              | QPSK       | 75      | 0         | 13.69                 | 13.61                    | 13.68                  |                     |
| 15              | 16QAM      | 1       | 0         | 13.68                 | 13.69                    | 13.68                  |                     |
| 15              | 16QAM      | 1       | 37        | 13.70                 | 13.72                    | 13.68                  | 14.5                |
| 15              | 16QAM      | 1       | 74        | 13.74                 | 13.71                    | 13.69                  |                     |
| 15              | 16QAM      | 36      | 0         | 13.59                 | 13.57                    | 13.55                  |                     |
| 15              | 16QAM      | 36      | 20        | 13.66                 | 13.59                    | 13.62                  |                     |
| 15              | 16QAM      | 36      | 39        | 13.61                 | 13.61                    | 13.55                  | 14.5                |
| 15              | 16QAM      | 75      | 0         | 13.70                 | 13.62                    | 13.64                  |                     |
| 15              | 64QAM      | 1       | 0         | 13.47                 | 13.47                    | 13.44                  |                     |
| 15              | 64QAM      | 1       | 37        | 13.57                 | 13.54                    | 13.48                  |                     |
| 15              | 64QAM      | 1       | 74        | 13.58                 | 13.53                    | 13.45                  | 14.5                |
| 15              | 64QAM      | 36      | 0         | 13.68                 | 13.64                    | 13.55                  |                     |
| 15              | 64QAM      | 36      | 20        | 13.84                 | 13.81                    | 13.67                  |                     |
| 15              | 64QAM      | 36      | 39        | 13.77                 | 13.73                    | 13.64                  |                     |
| 15              | 64QAM      | 75      | 0         | 13.77                 | 13.73                    | 13.58                  |                     |
| Channel         |            |         |           | 37600                 | 38000                    | 38200                  |                     |
| Frequency (MHz) |            |         |           | 2575                  | 2595                     | 2615                   |                     |
| 10              | QPSK       | 1       | 0         | 13.14                 | 13.35                    | 13.34                  | 14.5                |
| 10              | QPSK       | 1       | 25        | 13.35                 | 13.34                    | 13.33                  |                     |
| 10              | QPSK       | 1       | 49        | 13.10                 | 13.34                    | 13.32                  |                     |
| 10              | QPSK       | 25      | 0         | 13.40                 | 13.40                    | 13.38                  |                     |
| 10              | QPSK       | 25      | 12        | 13.51                 | 13.42                    | 13.46                  | 14.5                |
| 10              | QPSK       | 25      | 25        | 13.43                 | 13.40                    | 13.35                  |                     |
| 10              | QPSK       | 50      | 0         | 13.46                 | 13.36                    | 13.43                  |                     |
| 10              | 16QAM      | 1       | 0         | 13.33                 | 13.51                    | 13.51                  |                     |
| 10              | 16QAM      | 1       | 25        | 13.48                 | 13.49                    | 13.45                  | 14.5                |
| 10              | 16QAM      | 1       | 49        | 13.25                 | 13.51                    | 13.47                  |                     |
| 10              | 16QAM      | 25      | 0         | 13.32                 | 13.38                    | 13.32                  |                     |
| 10              | 16QAM      | 25      | 12        | 13.49                 | 13.42                    | 13.47                  |                     |
| 10              | 16QAM      | 25      | 25        | 13.37                 | 13.37                    | 13.31                  | 14.5                |
| 10              | 16QAM      | 50      | 0         | 13.46                 | 13.40                    | 13.48                  |                     |
| 10              | 64QAM      | 1       | 0         | 12.90                 | 13.25                    | 13.17                  |                     |
| 10              | 64QAM      | 1       | 25        | 13.33                 | 13.32                    | 13.25                  |                     |
| 10              | 64QAM      | 1       | 49        | 13.00                 | 13.27                    | 13.22                  | 14.5                |
| 10              | 64QAM      | 25      | 0         | 13.44                 | 13.47                    | 13.39                  |                     |
| 10              | 64QAM      | 25      | 12        | 13.66                 | 13.66                    | 13.51                  |                     |
| 10              | 64QAM      | 25      | 25        | 13.55                 | 13.53                    | 13.48                  |                     |
| 10              | 64QAM      | 50      | 0         | 13.51                 | 13.53                    | 13.35                  |                     |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  |                     |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |
| 5               | QPSK       | 1       | 0         | 13.36                 | 13.39                    | 13.34                  | 14.5                |
| 5               | QPSK       | 1       | 12        | 13.38                 | 13.42                    | 13.35                  |                     |
| 5               | QPSK       | 1       | 24        | 13.32                 | 13.32                    | 13.22                  |                     |
| 5               | QPSK       | 12      | 0         | 13.47                 | 13.47                    | 13.44                  |                     |
| 5               | QPSK       | 12      | 7         | 13.50                 | 13.46                    | 13.42                  | 14.5                |
| 5               | QPSK       | 12      | 13        | 13.45                 | 13.45                    | 13.39                  |                     |
| 5               | QPSK       | 25      | 0         | 13.46                 | 13.42                    | 13.36                  |                     |
| 5               | 16QAM      | 1       | 0         | 13.45                 | 13.48                    | 13.44                  |                     |
| 5               | 16QAM      | 1       | 12        | 13.57                 | 13.58                    | 13.59                  | 14.5                |
| 5               | 16QAM      | 1       | 24        | 13.45                 | 13.45                    | 13.41                  |                     |
| 5               | 16QAM      | 12      | 0         | 13.41                 | 13.43                    | 13.41                  |                     |
| 5               | 16QAM      | 12      | 7         | 13.40                 | 13.42                    | 13.39                  |                     |
| 5               | 16QAM      | 12      | 13        | 13.39                 | 13.44                    | 13.38                  | 14.5                |
| 5               | 16QAM      | 25      | 0         | 13.52                 | 13.44                    | 13.39                  |                     |
| 5               | 64QAM      | 1       | 0         | 13.20                 | 13.23                    | 13.18                  |                     |
| 5               | 64QAM      | 1       | 12        | 13.29                 | 13.37                    | 13.28                  |                     |
| 5               | 64QAM      | 1       | 24        | 13.33                 | 13.36                    | 13.26                  | 14.5                |
| 5               | 64QAM      | 12      | 0         | 13.56                 | 13.52                    | 13.45                  |                     |
| 5               | 64QAM      | 12      | 7         | 13.65                 | 13.64                    | 13.58                  |                     |
| 5               | 64QAM      | 12      | 13        | 13.60                 | 13.59                    | 13.53                  |                     |
| 5               | 64QAM      | 25      | 0         | 13.63                 | 13.66                    | 13.57                  |                     |

| Band 41_Ant 2   |            |         |           |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2500                | 2543.5                     | 2587                   | 2630.5                      | 2674                 |                     |
| 20              | QPSK       | 1       | 0         | 14.72               | 14.68                      | 14.58                  | 14.38                       | 14.38                | 15.5                |
| 20              | QPSK       | 1       | 49        | 14.68               | 14.69                      | 15.00                  | 14.60                       | 14.63                |                     |
| 20              | QPSK       | 1       | 99        | 14.85               | 14.75                      | 14.39                  | 14.37                       | 14.25                |                     |
| 20              | QPSK       | 50      | 0         | 14.80               | 14.78                      | 14.78                  | 14.55                       | 14.57                |                     |
| 20              | QPSK       | 50      | 24        | 14.76               | 14.82                      | 15.05                  | 14.67                       | 14.74                |                     |
| 20              | QPSK       | 50      | 50        | 14.74               | 14.85                      | 14.73                  | 14.70                       | 14.80                | 15.5                |
| 20              | QPSK       | 100     | 0         | 14.68               | 14.77                      | 14.71                  | 14.67                       | 14.54                |                     |
| 20              | 16QAM      | 1       | 0         | 14.88               | 14.83                      | 14.81                  | 14.57                       | 14.44                |                     |
| 20              | 16QAM      | 1       | 49        | 14.83               | 14.83                      | 14.95                  | 14.81                       | 14.82                |                     |
| 20              | 16QAM      | 1       | 99        | 14.78               | 14.87                      | 14.67                  | 14.41                       | 14.72                |                     |
| 20              | 16QAM      | 50      | 0         | 14.84               | 14.76                      | 14.77                  | 14.72                       | 14.84                | 15.5                |
| 20              | 16QAM      | 50      | 24        | 14.85               | 14.86                      | 14.88                  | 14.79                       | 14.81                |                     |
| 20              | 16QAM      | 50      | 50        | 14.80               | 14.90                      | 14.93                  | 14.71                       | 14.86                |                     |
| 20              | 16QAM      | 100     | 0         | 14.76               | 14.73                      | 14.89                  | 14.70                       | 14.74                |                     |
| 20              | 64QAM      | 1       | 0         | 14.64               | 14.42                      | 14.29                  | 14.19                       | 14.12                |                     |
| 20              | 64QAM      | 1       | 49        | 14.63               | 14.43                      | 14.74                  | 14.45                       | 14.55                | 15.5                |
| 20              | 64QAM      | 1       | 99        | 14.49               | 14.59                      | 14.40                  | 14.09                       | 14.48                |                     |
| 20              | 64QAM      | 50      | 0         | 14.82               | 14.80                      | 14.79                  | 14.74                       | 14.67                |                     |
| 20              | 64QAM      | 50      | 24        | 14.85               | 14.87                      | 15.01                  | 14.79                       | 14.82                |                     |
| 20              | 64QAM      | 50      | 50        | 14.79               | 14.90                      | 14.93                  | 14.72                       | 14.92                |                     |
| 20              | 64QAM      | 100     | 0         | 14.75               | 14.78                      | 14.89                  | 14.70                       | 14.76                |                     |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41519                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |
| 15              | QPSK       | 1       | 0         | 14.70               | 14.54                      | 14.68                  | 14.47                       | 14.43                | 15.5                |
| 15              | QPSK       | 1       | 37        | 14.69               | 14.71                      | 14.77                  | 14.64                       | 14.59                |                     |
| 15              | QPSK       | 1       | 74        | 14.69               | 14.66                      | 14.53                  | 14.54                       | 14.45                |                     |
| 15              | QPSK       | 36      | 0         | 14.79               | 14.63                      | 14.80                  | 14.57                       | 14.61                |                     |
| 15              | QPSK       | 36      | 20        | 14.78               | 14.86                      | 14.81                  | 14.67                       | 14.75                |                     |
| 15              | QPSK       | 36      | 39        | 14.75               | 14.84                      | 14.78                  | 14.73                       | 14.83                | 15.5                |
| 15              | QPSK       | 75      | 0         | 14.73               | 14.82                      | 14.77                  | 14.62                       | 14.68                |                     |
| 15              | 16QAM      | 1       | 0         | 14.93               | 14.84                      | 14.75                  | 14.73                       | 14.59                |                     |
| 15              | 16QAM      | 1       | 37        | 14.83               | 14.78                      | 14.86                  | 14.81                       | 14.82                |                     |
| 15              | 16QAM      | 1       | 74        | 14.85               | 14.66                      | 14.85                  | 14.64                       | 14.83                |                     |
| 15              | 16QAM      | 36      | 0         | 14.87               | 14.65                      | 14.76                  | 14.68                       | 14.64                | 15.5                |
| 15              | 16QAM      | 36      | 20        | 14.84               | 14.79                      | 14.92                  | 14.79                       | 14.83                |                     |
| 15              | 16QAM      | 36      | 39        | 14.81               | 14.72                      | 14.91                  | 14.71                       | 14.81                |                     |
| 15              | 16QAM      | 75      | 0         | 14.83               | 14.78                      | 14.94                  | 14.81                       | 14.76                |                     |
| 15              | 64QAM      | 1       | 0         | 14.64               | 14.25                      | 14.50                  | 14.40                       | 14.32                |                     |
| 15              | 64QAM      | 1       | 37        | 14.69               | 14.56                      | 14.76                  | 14.55                       | 14.63                | 15.5                |
| 15              | 64QAM      | 1       | 74        | 14.67               | 14.41                      | 14.58                  | 14.33                       | 14.63                |                     |
| 15              | 64QAM      | 36      | 0         | 14.89               | 14.72                      | 14.85                  | 14.75                       | 14.70                |                     |
| 15              | 64QAM      | 36      | 20        | 14.86               | 14.86                      | 15.00                  | 14.85                       | 14.89                |                     |
| 15              | 64QAM      | 36      | 39        | 14.86               | 14.80                      | 14.96                  | 14.75                       | 14.89                |                     |
| 15              | 64QAM      | 75      | 0         | 14.81               | 14.81                      | 14.93                  | 14.82                       | 14.76                |                     |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |
| 10              | QPSK       | 1       | 0         | 14.54               | 14.28                      | 14.28                  | 14.21                       | 14.26                | 15.5                |
| 10              | QPSK       | 1       | 25        | 14.49               | 14.57                      | 14.55                  | 14.42                       | 14.38                |                     |
| 10              | QPSK       | 1       | 49        | 14.56               | 14.22                      | 14.25                  | 14.24                       | 14.22                |                     |
| 10              | QPSK       | 25      | 0         | 14.59               | 14.45                      | 14.54                  | 14.40                       | 14.41                |                     |
| 10              | QPSK       | 25      | 12        | 14.60               | 14.62                      | 14.58                  | 14.55                       | 14.47                |                     |
| 10              | QPSK       | 25      | 25        | 14.63               | 14.52                      | 14.58                  | 14.45                       | 14.44                | 15.5                |
| 10              | QPSK       | 50      | 0         | 14.62               | 14.57                      | 14.51                  | 14.48                       | 14.41                |                     |
| 10              | 16QAM      | 1       | 0         | 14.74               | 14.46                      | 14.54                  | 14.56                       | 14.52                |                     |
| 10              | 16QAM      | 1       | 25        | 14.68               | 14.67                      | 14.76                  | 14.67                       | 14.70                |                     |
| 10              | 16QAM      | 1       | 49        | 14.64               | 14.42                      | 14.51                  | 14.46                       | 14.45                |                     |
| 10              | 16QAM      | 25      | 0         | 14.74               | 14.51                      | 14.61                  | 14.48                       | 14.57                | 15.5                |
| 10              | 16QAM      | 25      | 12        | 14.73               | 14.72                      | 14.82                  | 14.64                       | 14.78                |                     |
| 10              | 16QAM      | 25      | 25        | 14.70               | 14.59                      | 14.67                  | 14.61                       | 14.65                |                     |
| 10              | 16QAM      | 50      | 0         | 14.81               | 14.64                      | 14.71                  | 14.54                       | 14.68                |                     |
| 10              | 64QAM      | 1       | 0         | 14.44               | 14.13                      | 14.27                  | 14.11                       | 14.16                |                     |
| 10              | 64QAM      | 1       | 25        | 14.40               | 14.31                      | 14.55                  | 14.36                       | 14.43                | 15.5                |
| 10              | 64QAM      | 1       | 49        | 14.36               | 14.03                      | 14.20                  | 14.05                       | 14.12                |                     |
| 10              | 64QAM      | 25      | 0         | 14.75               | 14.57                      | 14.64                  | 14.54                       | 14.60                |                     |
| 10              | 64QAM      | 25      | 12        | 14.77               | 14.77                      | 14.85                  | 14.68                       | 14.77                |                     |
| 10              | 64QAM      | 25      | 25        | 14.73               | 14.65                      | 14.72                  | 14.62                       | 14.62                |                     |
| 10              | 64QAM      | 50      | 0         | 14.66               | 14.66                      | 14.72                  | 14.53                       | 14.65                |                     |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.39                     | 2687.5               |                     |
| 5               | QPSK       | 1       | 0         | 14.60               | 14.38                      | 14.49                  | 14.33                       | 14.38                | 15.5                |
| 5               | QPSK       | 1       | 12        | 14.51               | 14.53                      | 14.58                  | 14.46                       | 14.46                |                     |
| 5               | QPSK       | 1       | 24        | 14.54               | 14.37                      | 14.47                  | 14.31                       | 14.32                |                     |
| 5               | QPSK       | 12      | 0         | 14.64               | 14.62                      | 14.81                  | 14.49                       | 14.56                |                     |
| 5               | QPSK       | 12      | 7         | 14.85               | 14.66                      | 14.68                  | 14.54                       | 14.59                |                     |
| 5               | QPSK       | 12      | 13        | 14.83               | 14.60                      | 14.67                  | 14.55                       | 14.52                | 15.5                |
| 5               | QPSK       | 25      | 0         | 14.58               | 14.60                      | 14.63                  | 14.49                       | 14.51                |                     |
| 5               | 16QAM      | 1       | 0         | 14.74               | 14.64                      | 14.75                  | 14.67                       | 14.72                |                     |
| 5               | 16QAM      | 1       | 12        | 14.79               | 14.82                      | 14.85                  | 14.82                       | 14.81                |                     |
| 5               | 16QAM      | 1       | 24        | 14.74               | 14.71                      | 14.77                  | 14.71                       | 14.74                |                     |
| 5               | 16QAM      | 12      | 0         | 14.66               | 14.65                      | 14.69                  | 14.63                       | 14.71                | 15.5                |
| 5               | 16QAM      | 12      | 7         | 14.70               | 14.69                      | 14.77                  | 14.65                       | 14.75                |                     |
| 5               | 16QAM      | 12      | 13        | 14.67               | 14.69                      | 14.76                  | 14.66                       | 14.68                |                     |
| 5               | 16QAM      | 25      | 0         | 14.70               | 14.69                      | 14.78                  | 14.68                       | 14.76                |                     |
| 5               | 64QAM      | 1       | 0         | 14.50               | 14.26                      | 14.52                  | 14.28                       | 14.47                |                     |
| 5               | 64QAM      | 1       | 12        | 14.44               | 14.35                      | 14.55                  | 14.36                       | 14.45                | 15.5                |
| 5               | 64QAM      | 1       | 24        | 14.47               | 14.34                      | 14.54                  | 14.37                       | 14.43                |                     |
| 5               | 64QAM      | 12      | 0         | 14.75               | 14.65                      | 14.73                  | 14.64                       | 14.73                |                     |
| 5               | 64QAM      | 12      | 7         | 14.77               | 14.76                      | 14.81                  | 14.64                       | 14.75                |                     |
| 5               | 64QAM      | 12      | 13        | 14.72               | 14.71                      | 14.82                  | 14.67                       | 14.71                |                     |
| 5               | 64QAM      | 25      | 0         | 14.75               | 14.74                      | 14.81                  | 14.64                       | 14.75                |                     |

| Band 41_Ant 2   |            |         |           |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2500                | 2543.5                     | 2587                   | 2630.5                      | 2674                 |                     |
| 20              | QPSK       | 1       | 0         | 14.64               | 14.55                      | 14.47                  | 14.22                       | 14.21                | 15.5                |
| 20              | QPSK       | 1       | 49        | 14.56               | 14.68                      | 14.67                  | 14.48                       | 14.49                |                     |
| 20              | QPSK       | 1       | 99        | 14.56               | 14.65                      | 14.26                  | 14.26                       | 14.12                |                     |
| 20              | QPSK       | 50      | 0         | 14.81               | 14.78                      | 14.77                  | 14.55                       | 14.55                |                     |
| 20              | QPSK       | 50      | 24        | 14.76               | 14.84                      | 14.81                  | 14.65                       | 14.74                | 15.5                |
| 20              | QPSK       | 50      | 50        | 14.74               | 14.86                      | 14.75                  | 14.68                       | 14.59                |                     |
| 20              | QPSK       | 100     | 0         | 14.68               | 14.75                      | 14.72                  | 14.66                       | 14.52                |                     |
| 20              | 16QAM      | 1       | 0         | 15.04               | 14.84                      | 14.72                  | 14.68                       | 14.57                |                     |
| 20              | 16QAM      | 1       | 49        | 15.02               | 14.93                      | 15.09                  | 14.93                       | 15.01                | 15.5                |
| 20              | 16QAM      | 1       | 99        | 14.87               | 14.88                      | 14.82                  | 14.54                       | 14.87                |                     |
| 20              | 16QAM      | 50      | 0         | 14.87               | 14.76                      | 14.76                  | 14.70                       | 14.64                |                     |
| 20              | 16QAM      | 50      | 24        | 14.88               | 14.89                      | 14.88                  | 14.78                       | 14.78                |                     |
| 20              | 16QAM      | 50      | 50        | 14.82               | 14.87                      | 14.91                  | 14.69                       | 14.87                | 15.5                |
| 20              | 16QAM      | 100     | 0         | 14.79               | 14.75                      | 14.86                  | 14.69                       | 14.70                |                     |
| 20              | 64QAM      | 1       | 0         | 14.82               | 14.71                      | 14.57                  | 14.48                       | 14.38                |                     |
| 20              | 64QAM      | 1       | 49        | 14.81               | 14.71                      | 15.00                  | 14.74                       | 14.77                |                     |
| 20              | 64QAM      | 1       | 99        | 14.79               | 14.88                      | 14.66                  | 14.36                       | 14.74                | 15.5                |
| 20              | 64QAM      | 50      | 0         | 14.85               | 14.78                      | 14.80                  | 14.72                       | 14.67                |                     |
| 20              | 64QAM      | 50      | 24        | 14.88               | 14.87                      | 15.01                  | 14.79                       | 14.80                |                     |
| 20              | 64QAM      | 50      | 50        | 14.80               | 14.89                      | 14.94                  | 14.70                       | 14.90                |                     |
| 20              | 64QAM      | 100     | 0         | 14.75               | 14.79                      | 14.80                  | 14.69                       | 14.73                |                     |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41058                       | 41515                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |
| 15              | QPSK       | 1       | 0         | 14.67               | 14.49                      | 14.61                  | 14.46                       | 14.37                | 15.5                |
| 15              | QPSK       | 1       | 37        | 14.64               | 14.65                      | 14.67                  | 14.55                       | 14.61                |                     |
| 15              | QPSK       | 1       | 74        | 14.64               | 14.60                      | 14.47                  | 14.47                       | 14.38                |                     |
| 15              | QPSK       | 36      | 0         | 14.83               | 14.64                      | 14.78                  | 14.54                       | 14.59                |                     |
| 15              | QPSK       | 36      | 20        | 14.76               | 14.83                      | 14.78                  | 14.63                       | 14.74                | 15.5                |
| 15              | QPSK       | 36      | 39        | 14.74               | 14.81                      | 14.75                  | 14.71                       | 14.61                |                     |
| 15              | QPSK       | 75      | 0         | 14.71               | 14.79                      | 14.72                  | 14.59                       | 14.65                |                     |
| 15              | 16QAM      | 1       | 0         | 15.02               | 14.73                      | 14.88                  | 14.85                       | 14.72                |                     |
| 15              | 16QAM      | 1       | 37        | 14.97               | 14.94                      | 15.08                  | 14.96                       | 14.99                | 15.5                |
| 15              | 16QAM      | 1       | 74        | 14.88               | 14.78                      | 14.96                  | 14.75                       | 14.99                |                     |
| 15              | 16QAM      | 36      | 0         | 14.84               | 14.65                      | 14.77                  | 14.67                       | 14.64                |                     |
| 15              | 16QAM      | 36      | 20        | 14.86               | 14.80                      | 14.91                  | 14.78                       | 14.84                |                     |
| 15              | 16QAM      | 36      | 39        | 14.85               | 14.73                      | 14.89                  | 14.69                       | 14.81                | 15.5                |
| 15              | 16QAM      | 75      | 0         | 14.82               | 14.78                      | 14.80                  | 14.78                       | 14.72                |                     |
| 15              | 64QAM      | 1       | 0         | 14.89               | 14.52                      | 14.75                  | 14.63                       | 14.56                |                     |
| 15              | 64QAM      | 1       | 37        | 14.88               | 14.80                      | 15.04                  | 14.82                       | 14.89                |                     |
| 15              | 64QAM      | 1       | 74        | 14.82               | 14.66                      | 14.86                  | 14.61                       | 14.88                | 15.5                |
| 15              | 64QAM      | 36      | 0         | 14.87               | 14.70                      | 14.82                  | 14.73                       | 14.68                |                     |
| 15              | 64QAM      | 36      | 20        | 14.87               | 14.86                      | 15.00                  | 14.83                       | 14.87                |                     |
| 15              | 64QAM      | 36      | 39        | 14.84               | 14.78                      | 14.95                  | 14.73                       | 14.85                |                     |
| 15              | 64QAM      | 75      | 0         | 14.80               | 14.81                      | 14.91                  | 14.79                       | 14.73                |                     |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2638                        | 2685                 |                     |
| 10              | QPSK       | 1       | 0         | 14.44               | 14.18                      | 14.21                  | 14.06                       | 14.15                | 15.5                |
| 10              | QPSK       | 1       | 25        | 14.43               | 14.41                      | 14.46                  | 14.32                       | 14.36                |                     |
| 10              | QPSK       | 1       | 49        | 14.42               | 14.20                      | 14.20                  | 14.03                       | 14.10                |                     |
| 10              | QPSK       | 25      | 0         | 14.81               | 14.48                      | 14.50                  | 14.39                       | 14.40                |                     |
| 10              | QPSK       | 25      | 12        | 14.82               | 14.64                      | 14.59                  | 14.53                       | 14.49                | 15.5                |
| 10              | QPSK       | 25      | 25        | 14.57               | 14.52                      | 14.55                  | 14.41                       | 14.43                |                     |
| 10              | QPSK       | 50      | 0         | 14.63               | 14.52                      | 14.49                  | 14.48                       | 14.39                |                     |
| 10              | 16QAM      | 1       | 0         | 14.87               | 14.56                      | 14.66                  | 14.58                       | 14.63                |                     |
| 10              | 16QAM      | 1       | 25        | 14.82               | 14.79                      | 14.82                  | 14.83                       | 14.82                | 15.5                |
| 10              | 16QAM      | 1       | 49        | 14.81               | 14.57                      | 14.67                  | 14.60                       | 14.59                |                     |
| 10              | 16QAM      | 25      | 0         | 14.75               | 14.52                      | 14.64                  | 14.55                       | 14.56                |                     |
| 10              | 16QAM      | 25      | 12        | 14.71               | 14.70                      | 14.82                  | 14.68                       | 14.77                |                     |
| 10              | 16QAM      | 25      | 25        | 14.72               | 14.59                      | 14.68                  | 14.61                       | 14.62                | 15.5                |
| 10              | 16QAM      | 50      | 0         | 14.63               | 14.62                      | 14.72                  | 14.57                       | 14.66                |                     |
| 10              | 64QAM      | 1       | 0         | 14.80               | 14.37                      | 14.57                  | 14.40                       | 14.46                |                     |
| 10              | 64QAM      | 1       | 25        | 14.72               | 14.65                      | 14.90                  | 14.69                       | 14.76                |                     |
| 10              | 64QAM      | 1       | 49        | 14.74               | 14.45                      | 14.60                  | 14.46                       | 14.50                | 15.5                |
| 10              | 64QAM      | 25      | 0         | 14.78               | 14.61                      | 14.69                  | 14.56                       | 14.64                |                     |
| 10              | 64QAM      | 25      | 12        | 14.80               | 14.76                      | 14.86                  | 14.68                       | 14.61                |                     |
| 10              | 64QAM      | 25      | 25        | 14.77               | 14.68                      | 14.77                  | 14.64                       | 14.68                |                     |
| 10              | 64QAM      | 50      | 0         | 14.67               | 14.63                      | 14.75                  | 14.54                       | 14.63                |                     |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.39                     | 2687.5               |                     |
| 5               | QPSK       | 1       | 0         | 14.48               | 14.30                      | 14.39                  | 14.22                       | 14.30                | 15.5                |
| 5               | QPSK       | 1       | 12        | 14.46               | 14.49                      | 14.49                  | 14.36                       | 14.41                |                     |
| 5               | QPSK       | 1       | 24        | 14.44               | 14.30                      | 14.40                  | 14.24                       | 14.23                |                     |
| 5               | QPSK       | 12      | 0         | 14.64               | 14.59                      | 14.61                  | 14.48                       | 14.52                |                     |
| 5               | QPSK       | 12      | 7         | 14.88               | 14.83                      | 14.59                  | 14.50                       | 14.54                | 15.5                |
| 5               | QPSK       | 12      | 13        | 14.80               | 14.58                      | 14.60                  | 14.51                       | 14.51                |                     |
| 5               | QPSK       | 25      | 0         | 14.59               | 14.57                      | 14.54                  | 14.44                       | 14.48                |                     |
| 5               | 16QAM      | 1       | 0         | 14.88               | 14.81                      | 14.83                  | 14.77                       | 14.82                |                     |
| 5               | 16QAM      | 1       | 12        | 14.82               | 14.91                      | 14.89                  | 14.86                       | 14.84                | 15.5                |
| 5               | 16QAM      | 1       | 24        | 14.84               | 14.86                      | 14.87                  | 14.83                       | 14.78                |                     |
| 5               | 16QAM      | 12      | 0         | 14.72               | 14.84                      | 14.74                  | 14.65                       | 14.73                |                     |
| 5               | 16QAM      | 12      | 7         | 14.73               | 14.75                      | 14.81                  | 14.69                       | 14.78                |                     |
| 5               | 16QAM      | 12      | 13        | 14.71               | 14.70                      | 14.74                  | 14.68                       | 14.74                | 15.5                |
| 5               | 16QAM      | 25      | 0         | 14.68               | 14.70                      | 14.79                  | 14.68                       | 14.74                |                     |
| 5               | 64QAM      | 1       | 0         | 14.78               | 14.63                      | 14.74                  | 14.63                       | 14.72                |                     |
| 5               | 64QAM      | 1       | 12        | 14.75               | 14.71                      | 14.81                  | 14.69                       | 14.73                |                     |
| 5               | 64QAM      | 1       | 24        | 14.76               | 14.69                      | 14.84                  | 14.71                       | 14.68                | 15.5                |
| 5               | 64QAM      | 12      | 0         | 14.72               | 14.68                      | 14.75                  | 14.60                       | 14.74                |                     |
| 5               | 64QAM      | 12      | 7         | 14.76               | 14.74                      | 14.83                  | 14.64                       | 14.75                |                     |
| 5               | 64QAM      | 12      | 13        | 14.76               | 14.73                      | 14.79                  | 14.69                       | 14.68                |                     |
| 5               | 64QAM      | 25      | 0         | 14.71               | 14.71                      | 14.80                  | 14.62                       | 14.75                |                     |



| Band 38_Ant 2   |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 37650                 | 38000                    | 38150                  |                     |
| Frequency (MHz) |            |         |           | 2568                  | 2595                     | 2610                   |                     |
| 20              | QPSK       | 1       | 0         | 13.54                 | 13.60                    | 13.58                  | 15                  |
| 20              | QPSK       | 1       | 49        | 13.62                 | 13.61                    | 13.58                  |                     |
| 20              | QPSK       | 1       | 89        | 13.63                 | 13.63                    | 13.57                  |                     |
| 20              | QPSK       | 50      | 0         | 13.60                 | 13.61                    | 13.58                  |                     |
| 20              | QPSK       | 50      | 24        | 13.71                 | 13.65                    | 13.60                  |                     |
| 20              | QPSK       | 80      | 0         | 13.61                 | 13.58                    | 13.55                  | 15                  |
| 20              | QPSK       | 100     | 0         | 13.66                 | 13.58                    | 13.53                  |                     |
| 20              | 16QAM      | 1       | 0         | 13.66                 | 13.68                    | 13.63                  |                     |
| 20              | 16QAM      | 1       | 49        | 13.67                 | 13.66                    | 13.64                  |                     |
| 20              | 16QAM      | 1       | 89        | 13.69                 | 13.69                    | 13.63                  |                     |
| 20              | 16QAM      | 50      | 0         | 13.60                 | 13.57                    | 13.57                  | 15                  |
| 20              | 16QAM      | 50      | 24        | 13.70                 | 13.61                    | 13.60                  |                     |
| 20              | 16QAM      | 50      | 50        | 13.61                 | 13.60                    | 13.58                  |                     |
| 20              | 16QAM      | 100     | 0         | 13.63                 | 13.56                    | 13.52                  |                     |
| 20              | 64QAM      | 1       | 0         | 13.44                 | 13.46                    | 13.42                  |                     |
| 20              | 64QAM      | 1       | 49        | 13.50                 | 13.51                    | 13.43                  | 15                  |
| 20              | 64QAM      | 1       | 89        | 13.53                 | 13.49                    | 13.45                  |                     |
| 20              | 64QAM      | 50      | 0         | 13.61                 | 13.59                    | 13.55                  |                     |
| 20              | 64QAM      | 50      | 24        | 13.85                 | 13.80                    | 13.64                  |                     |
| 20              | 64QAM      | 50      | 50        | 13.72                 | 13.68                    | 13.62                  |                     |
| 20              | 64QAM      | 100     | 0         | 13.70                 | 13.66                    | 13.54                  |                     |
| Channel         |            |         |           | 37625                 | 38000                    | 38175                  |                     |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |
| 15              | QPSK       | 1       | 0         | 13.55                 | 13.56                    | 13.53                  | 15                  |
| 15              | QPSK       | 1       | 37        | 13.58                 | 13.58                    | 13.53                  |                     |
| 15              | QPSK       | 1       | 74        | 13.60                 | 13.60                    | 13.59                  |                     |
| 15              | QPSK       | 36      | 0         | 13.64                 | 13.63                    | 13.58                  |                     |
| 15              | QPSK       | 36      | 20        | 13.77                 | 13.64                    | 13.69                  |                     |
| 15              | QPSK       | 36      | 39        | 13.66                 | 13.64                    | 13.60                  | 15                  |
| 15              | QPSK       | 75      | 0         | 13.69                 | 13.61                    | 13.68                  |                     |
| 15              | 16QAM      | 1       | 0         | 13.68                 | 13.69                    | 13.68                  |                     |
| 15              | 16QAM      | 1       | 37        | 13.70                 | 13.72                    | 13.68                  |                     |
| 15              | 16QAM      | 1       | 74        | 13.74                 | 13.71                    | 13.69                  |                     |
| 15              | 16QAM      | 36      | 0         | 13.59                 | 13.57                    | 13.55                  | 15                  |
| 15              | 16QAM      | 36      | 20        | 13.66                 | 13.59                    | 13.62                  |                     |
| 15              | 16QAM      | 36      | 39        | 13.61                 | 13.61                    | 13.55                  |                     |
| 15              | 16QAM      | 75      | 0         | 13.70                 | 13.62                    | 13.64                  |                     |
| 15              | 64QAM      | 1       | 0         | 13.47                 | 13.47                    | 13.44                  |                     |
| 15              | 64QAM      | 1       | 37        | 13.57                 | 13.54                    | 13.48                  | 15                  |
| 15              | 64QAM      | 1       | 74        | 13.58                 | 13.53                    | 13.45                  |                     |
| 15              | 64QAM      | 36      | 0         | 13.68                 | 13.64                    | 13.58                  |                     |
| 15              | 64QAM      | 36      | 20        | 13.84                 | 13.81                    | 13.67                  |                     |
| 15              | 64QAM      | 36      | 39        | 13.77                 | 13.73                    | 13.64                  |                     |
| 15              | 64QAM      | 75      | 0         | 13.77                 | 13.73                    | 13.58                  |                     |
| Channel         |            |         |           | 37600                 | 38000                    | 38200                  |                     |
| Frequency (MHz) |            |         |           | 2575                  | 2595                     | 2615                   |                     |
| 10              | QPSK       | 1       | 0         | 13.14                 | 13.35                    | 13.34                  | 15                  |
| 10              | QPSK       | 1       | 25        | 13.35                 | 13.34                    | 13.33                  |                     |
| 10              | QPSK       | 1       | 49        | 13.10                 | 13.34                    | 13.32                  |                     |
| 10              | QPSK       | 25      | 0         | 13.40                 | 13.40                    | 13.38                  |                     |
| 10              | QPSK       | 25      | 12        | 13.51                 | 13.42                    | 13.46                  |                     |
| 10              | QPSK       | 25      | 25        | 13.43                 | 13.40                    | 13.35                  | 15                  |
| 10              | QPSK       | 50      | 0         | 13.46                 | 13.36                    | 13.43                  |                     |
| 10              | 16QAM      | 1       | 0         | 13.33                 | 13.51                    | 13.51                  |                     |
| 10              | 16QAM      | 1       | 25        | 13.48                 | 13.49                    | 13.45                  |                     |
| 10              | 16QAM      | 1       | 49        | 13.25                 | 13.51                    | 13.47                  |                     |
| 10              | 16QAM      | 25      | 0         | 13.32                 | 13.38                    | 13.32                  | 15                  |
| 10              | 16QAM      | 25      | 12        | 13.49                 | 13.42                    | 13.47                  |                     |
| 10              | 16QAM      | 25      | 25        | 13.37                 | 13.37                    | 13.31                  |                     |
| 10              | 16QAM      | 50      | 0         | 13.46                 | 13.40                    | 13.48                  |                     |
| 10              | 64QAM      | 1       | 0         | 12.90                 | 13.25                    | 13.17                  |                     |
| 10              | 64QAM      | 1       | 25        | 13.33                 | 13.32                    | 13.25                  | 15                  |
| 10              | 64QAM      | 1       | 49        | 13.00                 | 13.27                    | 13.22                  |                     |
| 10              | 64QAM      | 25      | 0         | 13.44                 | 13.47                    | 13.39                  |                     |
| 10              | 64QAM      | 25      | 12        | 13.66                 | 13.66                    | 13.51                  |                     |
| 10              | 64QAM      | 25      | 25        | 13.55                 | 13.53                    | 13.48                  |                     |
| 10              | 64QAM      | 50      | 0         | 13.51                 | 13.53                    | 13.35                  |                     |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  |                     |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |
| 5               | QPSK       | 1       | 0         | 13.36                 | 13.39                    | 13.34                  | 15                  |
| 5               | QPSK       | 1       | 12        | 13.38                 | 13.42                    | 13.35                  |                     |
| 5               | QPSK       | 1       | 24        | 13.32                 | 13.32                    | 13.22                  |                     |
| 5               | QPSK       | 12      | 0         | 13.47                 | 13.47                    | 13.44                  |                     |
| 5               | QPSK       | 12      | 7         | 13.50                 | 13.46                    | 13.42                  |                     |
| 5               | QPSK       | 12      | 13        | 13.45                 | 13.45                    | 13.39                  | 15                  |
| 5               | QPSK       | 25      | 0         | 13.46                 | 13.42                    | 13.36                  |                     |
| 5               | 16QAM      | 1       | 0         | 13.45                 | 13.48                    | 13.44                  |                     |
| 5               | 16QAM      | 1       | 12        | 13.57                 | 13.58                    | 13.59                  |                     |
| 5               | 16QAM      | 1       | 24        | 13.45                 | 13.45                    | 13.41                  |                     |
| 5               | 16QAM      | 12      | 0         | 13.41                 | 13.43                    | 13.41                  | 15                  |
| 5               | 16QAM      | 12      | 7         | 13.40                 | 13.42                    | 13.39                  |                     |
| 5               | 16QAM      | 12      | 13        | 13.39                 | 13.44                    | 13.38                  |                     |
| 5               | 16QAM      | 25      | 0         | 13.52                 | 13.44                    | 13.39                  |                     |
| 5               | 64QAM      | 1       | 0         | 13.20                 | 13.23                    | 13.18                  |                     |
| 5               | 64QAM      | 1       | 12        | 13.29                 | 13.37                    | 13.28                  | 15                  |
| 5               | 64QAM      | 1       | 24        | 13.33                 | 13.36                    | 13.26                  |                     |
| 5               | 64QAM      | 12      | 0         | 13.56                 | 13.52                    | 13.45                  |                     |
| 5               | 64QAM      | 12      | 7         | 13.65                 | 13.64                    | 13.58                  |                     |
| 5               | 64QAM      | 12      | 13        | 13.60                 | 13.59                    | 13.53                  |                     |
| 5               | 64QAM      | 25      | 0         | 13.63                 | 13.66                    | 13.57                  |                     |

| Band 41_Ant 2   |            |         |           |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2500                | 2543.5                     | 2587                   | 2630.5                      | 2674                 |                     |
| 20              | QPSK       | 1       | 0         | 14.72               | 14.68                      | 14.58                  | 14.38                       | 14.38                | 16                  |
| 20              | QPSK       | 1       | 49        | 14.68               | 14.69                      | 15.00                  | 14.60                       | 14.63                |                     |
| 20              | QPSK       | 1       | 99        | 14.85               | 14.75                      | 14.39                  | 14.37                       | 14.25                |                     |
| 20              | QPSK       | 50      | 0         | 14.80               | 14.76                      | 14.76                  | 14.55                       | 14.57                |                     |
| 20              | QPSK       | 50      | 24        | 14.76               | 14.82                      | 15.05                  | 14.67                       | 14.74                |                     |
| 20              | QPSK       | 50      | 50        | 14.74               | 14.85                      | 14.73                  | 14.70                       | 14.90                | 16                  |
| 20              | QPSK       | 100     | 0         | 14.68               | 14.77                      | 14.71                  | 14.67                       | 14.54                |                     |
| 20              | 16QAM      | 1       | 0         | 14.88               | 14.83                      | 14.81                  | 14.57                       | 14.44                |                     |
| 20              | 16QAM      | 1       | 49        | 14.83               | 14.83                      | 14.95                  | 14.81                       | 14.82                |                     |
| 20              | 16QAM      | 1       | 99        | 14.78               | 14.87                      | 14.67                  | 14.41                       | 14.72                |                     |
| 20              | 16QAM      | 50      | 0         | 14.84               | 14.76                      | 14.77                  | 14.72                       | 14.64                | 16                  |
| 20              | 16QAM      | 50      | 24        | 14.85               | 14.86                      | 14.88                  | 14.79                       | 14.81                |                     |
| 20              | 16QAM      | 50      | 50        | 14.80               | 14.90                      | 14.93                  | 14.71                       | 14.86                |                     |
| 20              | 16QAM      | 100     | 0         | 14.76               | 14.73                      | 14.89                  | 14.70                       | 14.74                |                     |
| 20              | 64QAM      | 1       | 0         | 14.64               | 14.42                      | 14.29                  | 14.19                       | 14.12                |                     |
| 20              | 64QAM      | 1       | 49        | 14.63               | 14.43                      | 14.74                  | 14.45                       | 14.55                | 16                  |
| 20              | 64QAM      | 1       | 99        | 14.49               | 14.59                      | 14.40                  | 14.09                       | 14.48                |                     |
| 20              | 64QAM      | 50      | 0         | 14.82               | 14.80                      | 14.79                  | 14.74                       | 14.67                |                     |
| 20              | 64QAM      | 50      | 24        | 14.85               | 14.87                      | 15.01                  | 14.79                       | 14.82                |                     |
| 20              | 64QAM      | 50      | 50        | 14.79               | 14.90                      | 14.93                  | 14.72                       | 14.92                |                     |
| 20              | 64QAM      | 100     | 0         | 14.75               | 14.78                      | 14.89                  | 14.70                       | 14.76                |                     |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |
| 15              | QPSK       | 1       | 0         | 14.70               | 14.54                      | 14.68                  | 14.47                       | 14.43                | 16                  |
| 15              | QPSK       | 1       | 37        | 14.69               | 14.71                      | 14.77                  | 14.64                       | 14.59                |                     |
| 15              | QPSK       | 1       | 74        | 14.69               | 14.66                      | 14.53                  | 14.54                       | 14.45                |                     |
| 15              | QPSK       | 36      | 0         | 14.79               | 14.63                      | 14.80                  | 14.57                       | 14.61                |                     |
| 15              | QPSK       | 36      | 20        | 14.78               | 14.86                      | 14.81                  | 14.67                       | 14.75                |                     |
| 15              | QPSK       | 36      | 39        | 14.75               | 14.84                      | 14.78                  | 14.73                       | 14.63                | 16                  |
| 15              | QPSK       | 75      | 0         | 14.73               | 14.82                      | 14.77                  | 14.62                       | 14.68                |                     |
| 15              | 16QAM      | 1       | 0         | 14.93               | 14.84                      | 14.75                  | 14.73                       | 14.59                |                     |
| 15              | 16QAM      | 1       | 37        | 14.83               | 14.78                      | 14.86                  | 14.81                       | 14.82                |                     |
| 15              | 16QAM      | 1       | 74        | 14.85               | 14.66                      | 14.85                  | 14.64                       | 14.83                |                     |
| 15              | 16QAM      | 36      | 0         | 14.87               | 14.65                      | 14.76                  | 14.68                       | 14.64                | 16                  |
| 15              | 16QAM      | 36      | 20        | 14.84               | 14.79                      | 14.92                  | 14.79                       | 14.83                |                     |
| 15              | 16QAM      | 36      | 39        | 14.81               | 14.72                      | 14.91                  | 14.71                       | 14.81                |                     |
| 15              | 16QAM      | 75      | 0         | 14.83               | 14.78                      | 14.94                  | 14.81                       | 14.76                |                     |
| 15              | 64QAM      | 1       | 0         | 14.64               | 14.25                      | 14.50                  | 14.40                       | 14.32                |                     |
| 15              | 64QAM      | 1       | 37        | 14.59               | 14.56                      | 14.76                  | 14.55                       | 14.63                | 16                  |
| 15              | 64QAM      | 1       | 74        | 14.57               | 14.41                      | 14.58                  | 14.33                       | 14.63                |                     |
| 15              | 64QAM      | 36      | 0         | 14.89               | 14.72                      | 14.85                  | 14.75                       | 14.70                |                     |
| 15              | 64QAM      | 36      | 20        | 14.86               | 14.86                      | 15.00                  | 14.85                       | 14.89                |                     |
| 15              | 64QAM      | 36      | 39        | 14.86               | 14.80                      | 14.96                  | 14.75                       | 14.89                |                     |
| 15              | 64QAM      | 75      | 0         | 14.81               | 14.81                      | 14.93                  | 14.82                       | 14.76                |                     |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |
| 10              | QPSK       | 1       | 0         | 14.54               | 14.28                      | 14.28                  | 14.21                       | 14.26                | 16                  |
| 10              | QPSK       | 1       | 25        | 14.49               | 14.57                      | 14.55                  | 14.42                       | 14.38                |                     |
| 10              | QPSK       | 1       | 49        | 14.56               | 14.22                      | 14.25                  | 14.24                       | 14.22                |                     |
| 10              | QPSK       | 25      | 0         | 14.59               | 14.45                      | 14.54                  | 14.40                       | 14.41                |                     |
| 10              | QPSK       | 25      | 12        | 14.60               | 14.62                      | 14.58                  | 14.55                       | 14.47                |                     |
| 10              | QPSK       | 25      | 25        | 14.63               | 14.52                      | 14.58                  | 14.45                       | 14.44                | 16                  |
| 10              | QPSK       | 50      | 0         | 14.62               | 14.57                      | 14.51                  | 14.48                       | 14.41                |                     |
| 10              | 16QAM      | 1       | 0         | 14.74               | 14.46                      | 14.54                  | 14.56                       | 14.52                |                     |
| 10              | 16QAM      | 1       | 25        | 14.68               | 14.67                      | 14.76                  | 14.67                       | 14.70                |                     |
| 10              | 16QAM      | 1       | 49        | 14.64               | 14.42                      | 14.51                  | 14.46                       | 14.45                |                     |
| 10              | 16QAM      | 25      | 0         | 14.74               | 14.51                      | 14.61                  | 14.48                       | 14.57                | 16                  |
| 10              | 16QAM      | 25      | 12        | 14.73               | 14.72                      | 14.82                  | 14.64                       | 14.78                |                     |
| 10              | 16QAM      | 25      | 25        | 14.70               | 14.59                      | 14.67                  | 14.61                       | 14.65                |                     |
| 10              | 16QAM      | 50      | 0         | 14.81               | 14.64                      | 14.71                  | 14.54                       | 14.68                |                     |
| 10              | 64QAM      | 1       | 0         | 14.44               | 14.13                      | 14.27                  | 14.11                       | 14.16                |                     |
| 10              | 64QAM      | 1       | 25        | 14.40               | 14.31                      | 14.55                  | 14.36                       | 14.43                | 16                  |
| 10              | 64QAM      | 1       | 49        | 14.36               | 14.03                      | 14.20                  | 14.05                       | 14.12                |                     |
| 10              | 64QAM      | 25      | 0         | 14.75               | 14.57                      | 14.64                  | 14.54                       | 14.60                |                     |
| 10              | 64QAM      | 25      | 12        | 14.77               | 14.77                      | 14.85                  | 14.68                       | 14.77                |                     |
| 10              | 64QAM      | 25      | 25        | 14.73               | 14.65                      | 14.72                  | 14.62                       | 14.62                |                     |
| 10              | 64QAM      | 50      | 0         | 14.66               | 14.66                      | 14.72                  | 14.53                       | 14.65                |                     |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.39                     | 2687.5               |                     |
| 5               | QPSK       | 1       | 0         | 14.60               | 14.36                      | 14.49                  | 14.33                       | 14.38                | 16                  |
| 5               | QPSK       | 1       | 12        | 14.51               | 14.53                      | 14.58                  | 14.46                       | 14.46                |                     |
| 5               | QPSK       | 1       | 24        | 14.54               | 14.37                      | 14.47                  | 14.31                       | 14.32                |                     |
| 5               | QPSK       | 12      | 0         | 14.64               | 14.62                      | 14.81                  | 14.49                       | 14.56                |                     |
| 5               | QPSK       | 12      | 7         | 14.65               | 14.66                      | 14.68                  | 14.54                       | 14.59                |                     |
| 5               | QPSK       | 12      | 13        | 14.63               | 14.60                      | 14.67                  | 14.55                       | 14.52                | 16                  |
| 5               | QPSK       | 25      | 0         | 14.58               | 14.60                      | 14.63                  | 14.49                       | 14.51                |                     |
| 5               | 16QAM      | 1       | 0         | 14.74               | 14.64                      | 14.75                  | 14.67                       | 14.72                |                     |
| 5               | 16QAM      | 1       | 12        | 14.79               | 14.82                      | 14.85                  | 14.82                       | 14.81                |                     |
| 5               | 16QAM      | 1       | 24        | 14.74               | 14.71                      | 14.77                  | 14.71                       | 14.74                |                     |
| 5               | 16QAM      | 12      | 0         | 14.66               | 14.65                      | 14.69                  | 14.63                       | 14.71                | 16                  |
| 5               | 16QAM      | 12      | 7         | 14.70               | 14.69                      | 14.77                  | 14.65                       | 14.75                |                     |
| 5               | 16QAM      | 12      | 13        | 14.67               | 14.69                      | 14.76                  | 14.66                       | 14.68                |                     |
| 5               | 16QAM      | 25      | 0         | 14.70               | 14.69                      | 14.78                  | 14.68                       | 14.76                |                     |
| 5               | 64QAM      | 1       | 0         | 14.50               | 14.26                      | 14.52                  | 14.28                       | 14.47                |                     |
| 5               | 64QAM      | 1       | 12        | 14.44               | 14.35                      | 14.55                  | 14.36                       | 14.45                | 16                  |
| 5               | 64QAM      | 1       | 24        | 14.47               | 14.34                      | 14.54                  | 14.37                       | 14.43                |                     |
| 5               | 64QAM      | 12      | 0         | 14.75               | 14.65                      | 14.73                  | 14.64                       | 14.73                |                     |
| 5               | 64QAM      | 12      | 7         | 14.77               | 14.76                      | 14.81                  | 14.64                       | 14.75                |                     |
| 5               | 64QAM      | 12      | 13        | 14.72               | 14.71                      | 14.82                  | 14.67                       | 14.71                |                     |
| 5               | 64QAM      | 25      | 0         | 14.75               | 14.74                      | 14.81                  | 14.64                       | 14.75                |                     |

| Band 41_Ant 2   |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2500                | 2543.5                     | 2587                   | 2630.5                      | 2674                 |                     |  |
| 20              | QPSK       | 1       | 0         | 14.64               | 14.55                      | 14.47                  | 14.22                       | 14.21                | 16                  |  |
| 20              | QPSK       | 1       | 49        | 14.56               | 14.68                      | 14.67                  | 14.48                       | 14.49                |                     |  |
| 20              | QPSK       | 1       | 99        | 14.56               | 14.65                      | 14.26                  | 14.26                       | 14.12                |                     |  |
| 20              | QPSK       | 50      | 0         | 14.81               | 14.78                      | 14.77                  | 14.55                       | 14.55                |                     |  |
| 20              | QPSK       | 50      | 24        | 14.76               | 14.84                      | 14.81                  | 14.65                       | 14.74                | 16                  |  |
| 20              | QPSK       | 50      | 50        | 14.74               | 14.86                      | 14.75                  | 14.68                       | 14.59                |                     |  |
| 20              | QPSK       | 100     | 0         | 14.68               | 14.75                      | 14.72                  | 14.66                       | 14.52                |                     |  |
| 20              | 16QAM      | 1       | 0         | 15.04               | 14.84                      | 14.72                  | 14.68                       | 14.57                |                     |  |
| 20              | 16QAM      | 1       | 49        | 15.02               | 14.93                      | 15.09                  | 14.93                       | 15.01                | 16                  |  |
| 20              | 16QAM      | 1       | 99        | 14.87               | 14.88                      | 14.82                  | 14.54                       | 14.87                |                     |  |
| 20              | 16QAM      | 50      | 0         | 14.87               | 14.76                      | 14.76                  | 14.70                       | 14.64                |                     |  |
| 20              | 16QAM      | 50      | 24        | 14.88               | 14.89                      | 14.88                  | 14.78                       | 14.78                |                     |  |
| 20              | 16QAM      | 50      | 50        | 14.82               | 14.87                      | 14.91                  | 14.69                       | 14.87                | 16                  |  |
| 20              | 16QAM      | 100     | 0         | 14.79               | 14.75                      | 14.86                  | 14.69                       | 14.70                |                     |  |
| 20              | 64QAM      | 1       | 0         | 14.82               | 14.71                      | 14.57                  | 14.48                       | 14.38                |                     |  |
| 20              | 64QAM      | 1       | 49        | 14.81               | 14.71                      | 15.00                  | 14.74                       | 14.77                |                     |  |
| 20              | 64QAM      | 1       | 99        | 14.79               | 14.88                      | 14.66                  | 14.36                       | 14.74                | 16                  |  |
| 20              | 64QAM      | 50      | 0         | 14.85               | 14.78                      | 14.80                  | 14.72                       | 14.67                |                     |  |
| 20              | 64QAM      | 50      | 24        | 14.88               | 14.87                      | 15.01                  | 14.79                       | 14.80                |                     |  |
| 20              | 64QAM      | 50      | 50        | 14.80               | 14.89                      | 14.94                  | 14.70                       | 14.90                |                     |  |
| 20              | 64QAM      | 100     | 0         | 14.75               | 14.79                      | 14.80                  | 14.69                       | 14.73                | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                |                     |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 14.67               | 14.49                      | 14.61                  | 14.46                       | 14.37                | 16                  |  |
| 15              | QPSK       | 1       | 37        | 14.64               | 14.65                      | 14.67                  | 14.55                       | 14.61                |                     |  |
| 15              | QPSK       | 1       | 74        | 14.64               | 14.60                      | 14.47                  | 14.47                       | 14.38                |                     |  |
| 15              | QPSK       | 36      | 0         | 14.83               | 14.64                      | 14.78                  | 14.54                       | 14.59                |                     |  |
| 15              | QPSK       | 36      | 20        | 14.76               | 14.83                      | 14.78                  | 14.63                       | 14.74                | 16                  |  |
| 15              | QPSK       | 36      | 39        | 14.74               | 14.81                      | 14.75                  | 14.71                       | 14.61                |                     |  |
| 15              | QPSK       | 75      | 0         | 14.71               | 14.79                      | 14.72                  | 14.59                       | 14.65                |                     |  |
| 15              | 16QAM      | 1       | 0         | 15.02               | 14.73                      | 14.88                  | 14.65                       | 14.72                |                     |  |
| 15              | 16QAM      | 1       | 37        | 14.97               | 14.94                      | 15.08                  | 14.96                       | 14.99                | 16                  |  |
| 15              | 16QAM      | 1       | 74        | 14.88               | 14.78                      | 14.96                  | 14.75                       | 14.99                |                     |  |
| 15              | 16QAM      | 36      | 0         | 14.84               | 14.65                      | 14.77                  | 14.67                       | 14.64                |                     |  |
| 15              | 16QAM      | 36      | 20        | 14.86               | 14.80                      | 14.91                  | 14.78                       | 14.84                |                     |  |
| 15              | 16QAM      | 36      | 39        | 14.85               | 14.73                      | 14.89                  | 14.69                       | 14.81                | 16                  |  |
| 15              | 16QAM      | 75      | 0         | 14.82               | 14.78                      | 14.80                  | 14.78                       | 14.72                |                     |  |
| 15              | 64QAM      | 1       | 0         | 14.89               | 14.52                      | 14.75                  | 14.63                       | 14.56                |                     |  |
| 15              | 64QAM      | 1       | 37        | 14.88               | 14.80                      | 15.04                  | 14.82                       | 14.89                |                     |  |
| 15              | 64QAM      | 1       | 74        | 14.82               | 14.86                      | 14.86                  | 14.61                       | 14.88                | 16                  |  |
| 15              | 64QAM      | 36      | 0         | 14.87               | 14.70                      | 14.82                  | 14.73                       | 14.68                |                     |  |
| 15              | 64QAM      | 36      | 20        | 14.87               | 14.86                      | 15.00                  | 14.83                       | 14.87                |                     |  |
| 15              | 64QAM      | 36      | 39        | 14.84               | 14.78                      | 14.95                  | 14.73                       | 14.85                |                     |  |
| 15              | 64QAM      | 75      | 0         | 14.80               | 14.81                      | 14.91                  | 14.79                       | 14.73                | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2638                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 14.44               | 14.18                      | 14.21                  | 14.06                       | 14.15                | 16                  |  |
| 10              | QPSK       | 1       | 25        | 14.43               | 14.41                      | 14.46                  | 14.32                       | 14.36                |                     |  |
| 10              | QPSK       | 1       | 49        | 14.42               | 14.20                      | 14.20                  | 14.03                       | 14.10                |                     |  |
| 10              | QPSK       | 25      | 0         | 14.61               | 14.46                      | 14.50                  | 14.39                       | 14.40                |                     |  |
| 10              | QPSK       | 25      | 12        | 14.62               | 14.64                      | 14.59                  | 14.53                       | 14.49                | 16                  |  |
| 10              | QPSK       | 25      | 25        | 14.57               | 14.52                      | 14.55                  | 14.41                       | 14.43                |                     |  |
| 10              | QPSK       | 50      | 0         | 14.63               | 14.52                      | 14.49                  | 14.48                       | 14.39                |                     |  |
| 10              | 16QAM      | 1       | 0         | 14.87               | 14.56                      | 14.66                  | 14.58                       | 14.63                |                     |  |
| 10              | 16QAM      | 1       | 25        | 14.82               | 14.79                      | 14.82                  | 14.63                       | 14.62                | 16                  |  |
| 10              | 16QAM      | 1       | 49        | 14.81               | 14.57                      | 14.67                  | 14.60                       | 14.59                |                     |  |
| 10              | 16QAM      | 25      | 0         | 14.75               | 14.52                      | 14.64                  | 14.55                       | 14.56                |                     |  |
| 10              | 16QAM      | 25      | 12        | 14.71               | 14.70                      | 14.82                  | 14.68                       | 14.77                |                     |  |
| 10              | 16QAM      | 25      | 25        | 14.72               | 14.59                      | 14.68                  | 14.61                       | 14.62                | 16                  |  |
| 10              | 16QAM      | 50      | 0         | 14.63               | 14.62                      | 14.72                  | 14.57                       | 14.66                |                     |  |
| 10              | 64QAM      | 1       | 0         | 14.80               | 14.37                      | 14.57                  | 14.40                       | 14.46                |                     |  |
| 10              | 64QAM      | 1       | 25        | 14.72               | 14.65                      | 14.90                  | 14.69                       | 14.76                |                     |  |
| 10              | 64QAM      | 1       | 49        | 14.74               | 14.45                      | 14.60                  | 14.46                       | 14.50                | 16                  |  |
| 10              | 64QAM      | 25      | 0         | 14.78               | 14.61                      | 14.69                  | 14.56                       | 14.64                |                     |  |
| 10              | 64QAM      | 25      | 12        | 14.80               | 14.76                      | 14.86                  | 14.68                       | 14.61                |                     |  |
| 10              | 64QAM      | 25      | 25        | 14.77               | 14.68                      | 14.77                  | 14.64                       | 14.68                |                     |  |
| 10              | 64QAM      | 50      | 0         | 14.67               | 14.63                      | 14.75                  | 14.54                       | 14.63                | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41093                       | 41565                |                     |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.39                     | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 14.48               | 14.30                      | 14.39                  | 14.22                       | 14.30                | 16                  |  |
| 5               | QPSK       | 1       | 12        | 14.46               | 14.49                      | 14.49                  | 14.36                       | 14.41                |                     |  |
| 5               | QPSK       | 1       | 24        | 14.44               | 14.30                      | 14.40                  | 14.24                       | 14.23                |                     |  |
| 5               | QPSK       | 12      | 0         | 14.64               | 14.59                      | 14.61                  | 14.48                       | 14.52                |                     |  |
| 5               | QPSK       | 12      | 7         | 14.66               | 14.63                      | 14.59                  | 14.50                       | 14.54                | 16                  |  |
| 5               | QPSK       | 12      | 13        | 14.60               | 14.58                      | 14.60                  | 14.51                       | 14.51                |                     |  |
| 5               | QPSK       | 25      | 0         | 14.59               | 14.57                      | 14.54                  | 14.44                       | 14.48                |                     |  |
| 5               | 16QAM      | 1       | 0         | 14.88               | 14.81                      | 14.83                  | 14.77                       | 14.82                |                     |  |
| 5               | 16QAM      | 1       | 12        | 14.82               | 14.91                      | 14.89                  | 14.86                       | 14.84                | 16                  |  |
| 5               | 16QAM      | 1       | 24        | 14.84               | 14.86                      | 14.87                  | 14.83                       | 14.78                |                     |  |
| 5               | 16QAM      | 12      | 0         | 14.72               | 14.84                      | 14.74                  | 14.65                       | 14.73                |                     |  |
| 5               | 16QAM      | 12      | 7         | 14.73               | 14.75                      | 14.81                  | 14.69                       | 14.78                |                     |  |
| 5               | 16QAM      | 12      | 13        | 14.71               | 14.70                      | 14.74                  | 14.68                       | 14.74                | 16                  |  |
| 5               | 16QAM      | 25      | 0         | 14.68               | 14.70                      | 14.79                  | 14.68                       | 14.74                |                     |  |
| 5               | 64QAM      | 1       | 0         | 14.78               | 14.63                      | 14.74                  | 14.63                       | 14.72                |                     |  |
| 5               | 64QAM      | 1       | 12        | 14.75               | 14.71                      | 14.81                  | 14.69                       | 14.73                |                     |  |
| 5               | 64QAM      | 1       | 24        | 14.76               | 14.69                      | 14.84                  | 14.71                       | 14.68                | 16                  |  |
| 5               | 64QAM      | 12      | 0         | 14.72               | 14.68                      | 14.75                  | 14.60                       | 14.74                |                     |  |
| 5               | 64QAM      | 12      | 7         | 14.76               | 14.74                      | 14.83                  | 14.64                       | 14.75                |                     |  |
| 5               | 64QAM      | 12      | 13        | 14.76               | 14.73                      | 14.79                  | 14.69                       | 14.68                |                     |  |
| 5               | 64QAM      | 25      | 0         | 14.71               | 14.71                      | 14.80                  | 14.62                       | 14.75                | Tune-up limit (dBm) |  |



| Band 38_Ant 2   |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 37650                 | 38000                    | 38150                  | 20.5                |
| Frequency (MHz) |            |         |           | 2300                  | 2305                     | 2310                   |                     |
| 20              | QPSK       | 1       | 0         | 19.73                 | 19.69                    | 19.63                  | 20.5                |
| 20              | QPSK       | 1       | 49        | 19.76                 | 19.71                    | 19.67                  |                     |
| 20              | QPSK       | 1       | 99        | 19.76                 | 19.70                    | 19.63                  |                     |
| 20              | QPSK       | 50      | 0         | 19.63                 | 19.58                    | 19.52                  |                     |
| 20              | QPSK       | 50      | 24        | 19.83                 | 19.75                    | 19.61                  |                     |
| 20              | QPSK       | 50      | 50        | 19.72                 | 19.68                    | 19.60                  |                     |
| 20              | QPSK       | 100     | 0         | 19.70                 | 19.67                    | 19.52                  | 20.5                |
| 20              | 16QAM      | 1       | 0         | 19.87                 | 19.86                    | 19.78                  |                     |
| 20              | 16QAM      | 1       | 49        | 19.86                 | 19.81                    | 19.77                  |                     |
| 20              | 16QAM      | 1       | 99        | 19.90                 | 19.83                    | 19.78                  |                     |
| 20              | 16QAM      | 50      | 0         | 19.65                 | 19.62                    | 19.55                  |                     |
| 20              | 16QAM      | 50      | 24        | 19.83                 | 19.80                    | 19.66                  |                     |
| 20              | 16QAM      | 50      | 50        | 19.75                 | 19.70                    | 19.63                  | 20.5                |
| 20              | 16QAM      | 100     | 0         | 19.74                 | 19.69                    | 19.54                  |                     |
| 20              | 64QAM      | 1       | 0         | 19.58                 | 19.57                    | 19.49                  |                     |
| 20              | 64QAM      | 1       | 49        | 19.62                 | 19.53                    | 19.51                  |                     |
| 20              | 64QAM      | 1       | 99        | 19.64                 | 19.58                    | 19.53                  |                     |
| 20              | 64QAM      | 50      | 0         | 19.64                 | 19.59                    | 19.52                  |                     |
| 20              | 64QAM      | 50      | 24        | 19.83                 | 19.76                    | 19.63                  | 20.5                |
| 20              | 64QAM      | 50      | 50        | 19.74                 | 19.69                    | 19.62                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.71                 | 19.66                    | 19.52                  |                     |
| Channel         |            |         |           | 37625                 | 38000                    | 38175                  | 20.5                |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |
| 15              | QPSK       | 1       | 0         | 19.68                 | 19.65                    | 19.56                  | 20.5                |
| 15              | QPSK       | 1       | 37        | 19.67                 | 19.66                    | 19.57                  |                     |
| 15              | QPSK       | 1       | 74        | 19.70                 | 19.69                    | 19.60                  |                     |
| 15              | QPSK       | 36      | 0         | 19.65                 | 19.60                    | 19.55                  |                     |
| 15              | QPSK       | 36      | 20        | 19.82                 | 19.76                    | 19.62                  |                     |
| 15              | QPSK       | 36      | 39        | 19.74                 | 19.69                    | 19.61                  |                     |
| 15              | 16QAM      | 1       | 0         | 19.87                 | 19.84                    | 19.75                  | 20.5                |
| 15              | 16QAM      | 1       | 37        | 19.77                 | 19.78                    | 19.75                  |                     |
| 15              | 16QAM      | 1       | 74        | 19.91                 | 19.84                    | 19.77                  |                     |
| 15              | 16QAM      | 36      | 0         | 19.61                 | 19.59                    | 19.51                  |                     |
| 15              | 16QAM      | 36      | 20        | 19.79                 | 19.75                    | 19.61                  |                     |
| 15              | 16QAM      | 36      | 39        | 19.72                 | 19.69                    | 19.60                  |                     |
| 15              | 16QAM      | 75      | 0         | 19.78                 | 19.73                    | 19.58                  | 20.5                |
| 15              | 64QAM      | 1       | 0         | 19.54                 | 19.53                    | 19.43                  |                     |
| 15              | 64QAM      | 1       | 37        | 19.59                 | 19.52                    | 19.51                  |                     |
| 15              | 64QAM      | 1       | 74        | 19.64                 | 19.54                    | 19.51                  |                     |
| 15              | 64QAM      | 36      | 0         | 19.66                 | 19.63                    | 19.55                  |                     |
| 15              | 64QAM      | 36      | 20        | 19.83                 | 19.79                    | 19.62                  |                     |
| 15              | 64QAM      | 36      | 39        | 19.76                 | 19.71                    | 19.65                  | 20.5                |
| 15              | 64QAM      | 75      | 0         | 19.75                 | 19.72                    | 19.58                  |                     |
| Channel         |            |         |           | 37600                 | 38000                    | 38200                  | 20.5                |
| Frequency (MHz) |            |         |           | 2375                  | 2395                     | 2415                   |                     |
| 10              | QPSK       | 1       | 0         | 19.04                 | 19.34                    | 19.26                  | 20.5                |
| 10              | QPSK       | 1       | 25        | 19.37                 | 19.32                    | 19.27                  |                     |
| 10              | QPSK       | 1       | 49        | 19.14                 | 19.42                    | 19.32                  |                     |
| 10              | QPSK       | 25      | 0         | 19.40                 | 19.37                    | 19.29                  |                     |
| 10              | QPSK       | 25      | 12        | 19.56                 | 19.53                    | 19.37                  |                     |
| 10              | QPSK       | 25      | 25        | 19.50                 | 19.47                    | 19.38                  |                     |
| 10              | QPSK       | 50      | 0         | 19.48                 | 19.46                    | 19.30                  | 20.5                |
| 10              | 16QAM      | 1       | 0         | 19.40                 | 19.70                    | 19.64                  |                     |
| 10              | 16QAM      | 1       | 25        | 19.75                 | 19.74                    | 19.61                  |                     |
| 10              | 16QAM      | 1       | 49        | 19.47                 | 19.70                    | 19.64                  |                     |
| 10              | 16QAM      | 25      | 0         | 19.42                 | 19.39                    | 19.30                  |                     |
| 10              | 16QAM      | 25      | 12        | 19.64                 | 19.58                    | 19.42                  |                     |
| 10              | 16QAM      | 25      | 25        | 19.52                 | 19.50                    | 19.42                  | 20.5                |
| 10              | 16QAM      | 50      | 0         | 19.54                 | 19.50                    | 19.34                  |                     |
| 10              | 64QAM      | 1       | 0         | 19.26                 | 19.62                    | 19.50                  |                     |
| 10              | 64QAM      | 1       | 25        | 19.68                 | 19.67                    | 19.60                  |                     |
| 10              | 64QAM      | 1       | 49        | 19.41                 | 19.68                    | 19.60                  |                     |
| 10              | 64QAM      | 25      | 0         | 19.48                 | 19.48                    | 19.40                  |                     |
| 10              | 64QAM      | 25      | 12        | 19.67                 | 19.66                    | 19.51                  | 20.5                |
| 10              | 64QAM      | 25      | 25        | 19.57                 | 19.56                    | 19.50                  |                     |
| 10              | 64QAM      | 50      | 0         | 19.53                 | 19.53                    | 19.38                  |                     |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  | 20.5                |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |
| 5               | QPSK       | 1       | 0         | 19.27                 | 19.22                    | 19.19                  | 20.5                |
| 5               | QPSK       | 1       | 12        | 19.36                 | 19.36                    | 19.30                  |                     |
| 5               | QPSK       | 1       | 24        | 19.35                 | 19.30                    | 19.24                  |                     |
| 5               | QPSK       | 12      | 0         | 19.52                 | 19.45                    | 19.35                  |                     |
| 5               | QPSK       | 12      | 7         | 19.57                 | 19.57                    | 19.46                  |                     |
| 5               | QPSK       | 12      | 13        | 19.54                 | 19.52                    | 19.43                  |                     |
| 5               | QPSK       | 25      | 0         | 19.51                 | 19.48                    | 19.41                  | 20.5                |
| 5               | 16QAM      | 1       | 0         | 19.57                 | 19.55                    | 19.44                  |                     |
| 5               | 16QAM      | 1       | 12        | 19.66                 | 19.67                    | 19.57                  |                     |
| 5               | 16QAM      | 1       | 24        | 19.67                 | 19.64                    | 19.56                  |                     |
| 5               | 16QAM      | 12      | 0         | 19.55                 | 19.48                    | 19.40                  |                     |
| 5               | 16QAM      | 12      | 7         | 19.60                 | 19.58                    | 19.51                  |                     |
| 5               | 16QAM      | 12      | 13        | 19.59                 | 19.52                    | 19.47                  | 20.5                |
| 5               | 16QAM      | 25      | 0         | 19.59                 | 19.57                    | 19.45                  |                     |
| 5               | 64QAM      | 1       | 0         | 19.42                 | 19.49                    | 19.37                  |                     |
| 5               | 64QAM      | 1       | 12        | 19.58                 | 19.62                    | 19.53                  |                     |
| 5               | 64QAM      | 1       | 24        | 19.58                 | 19.60                    | 19.48                  |                     |
| 5               | 64QAM      | 12      | 0         | 19.53                 | 19.54                    | 19.44                  |                     |
| 5               | 64QAM      | 12      | 7         | 19.63                 | 19.62                    | 19.54                  | 20.5                |
| 5               | 64QAM      | 12      | 13        | 19.61                 | 19.60                    | 19.50                  |                     |
| 5               | 64QAM      | 25      | 0         | 19.59                 | 19.62                    | 19.51                  |                     |

| Band 41_Ant 2   |            |         |           |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |
| 20              | QPSK       | 1       | 0         | 19.73               | 19.74                      | 19.47                  | 19.47                       | 19.31                | 20.5                |
| 20              | QPSK       | 1       | 49        | 19.78               | 19.80                      | 19.83                  | 19.76                       | 19.74                |                     |
| 20              | QPSK       | 1       | 99        | 19.71               | 19.79                      | 19.56                  | 19.34                       | 19.64                |                     |
| 20              | QPSK       | 50      | 0         | 19.81               | 19.73                      | 19.74                  | 19.68                       | 19.60                |                     |
| 20              | QPSK       | 50      | 24        | 19.82               | 19.84                      | 19.95                  | 19.73                       | 19.79                |                     |
| 20              | QPSK       | 50      | 50        | 19.78               | 19.83                      | 19.86                  | 19.88                       | 19.78                | 20.5                |
| 20              | QPSK       | 100     | 0         | 19.75               | 19.75                      | 19.85                  | 19.62                       | 19.67                |                     |
| 20              | 16QAM      | 1       | 0         | 19.93               | 19.92                      | 19.80                  | 19.59                       | 19.42                |                     |
| 20              | 16QAM      | 1       | 49        | 19.84               | 19.89                      | 19.91                  | 19.87                       | 19.85                |                     |
| 20              | 16QAM      | 1       | 99        | 19.83               | 19.99                      | 19.65                  | 19.45                       | 19.74                |                     |
| 20              | 16QAM      | 50      | 0         | 19.88               | 19.77                      | 19.76                  | 19.72                       | 19.64                | 20.5                |
| 20              | 16QAM      | 50      | 24        | 19.87               | 19.88                      | 19.95                  | 19.78                       | 19.79                |                     |
| 20              | 16QAM      | 50      | 50        | 19.83               | 19.87                      | 19.91                  | 19.71                       | 19.84                |                     |
| 20              | 16QAM      | 100     | 0         | 19.79               | 19.77                      | 19.87                  | 19.65                       | 19.69                |                     |
| 20              | 64QAM      | 1       | 0         | 19.72               | 19.70                      | 19.32                  | 19.32                       | 19.13                |                     |
| 20              | 64QAM      | 1       | 49        | 19.62               | 19.60                      | 19.73                  | 19.60                       | 19.58                | 20.5                |
| 20              | 64QAM      | 1       | 99        | 19.60               | 19.95                      | 19.42                  | 19.20                       | 19.52                |                     |
| 20              | 64QAM      | 50      | 0         | 19.87               | 19.77                      | 19.76                  | 19.70                       | 19.60                |                     |
| 20              | 64QAM      | 50      | 24        | 19.86               | 19.87                      | 19.95                  | 19.76                       | 19.78                |                     |
| 20              | 64QAM      | 50      | 50        | 19.83               | 19.86                      | 19.90                  | 19.70                       | 19.84                |                     |
| 20              | 64QAM      | 100     | 0         | 19.79               | 19.76                      | 19.86                  | 19.65                       | 19.69                |                     |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |
| 15              | QPSK       | 1       | 0         | 19.76               | 19.47                      | 19.58                  | 19.51                       | 19.49                | 20.5                |
| 15              | QPSK       | 1       | 37        | 19.73               | 19.63                      | 19.61                  | 19.66                       | 19.68                |                     |
| 15              | QPSK       | 1       | 74        | 19.71               | 19.46                      | 19.70                  | 19.41                       | 19.67                |                     |
| 15              | QPSK       | 36      | 0         | 19.84               | 19.69                      | 19.76                  | 19.69                       | 19.65                |                     |
| 15              | QPSK       | 36      | 20        | 19.84               | 19.84                      | 19.94                  | 19.81                       | 19.83                |                     |
| 15              | QPSK       | 36      | 39        | 19.80               | 19.75                      | 19.90                  | 19.71                       | 19.83                | 20.5                |
| 15              | QPSK       | 75      | 0         | 19.80               | 19.77                      | 19.67                  | 19.74                       | 19.69                |                     |
| 15              | 16QAM      | 1       | 0         | 19.93               | 19.72                      | 19.77                  | 19.77                       | 19.58                |                     |
| 15              | 16QAM      | 1       | 37        | 19.79               | 19.90                      | 19.86                  | 19.89                       | 19.86                |                     |
| 15              | 16QAM      | 1       | 74        | 19.85               | 19.79                      | 19.84                  | 19.65                       | 19.88                |                     |
| 15              | 16QAM      | 36      | 0         | 19.83               | 19.67                      | 19.76                  | 19.68                       | 19.61                | 20.5                |
| 15              | 16QAM      | 36      | 20        | 19.80               | 19.83                      | 19.91                  | 19.80                       | 19.82                |                     |
| 15              | 16QAM      | 36      | 39        | 19.79               | 19.74                      | 19.89                  | 19.71                       | 19.80                |                     |
| 15              | 16QAM      | 75      | 0         | 19.85               | 19.79                      | 19.91                  | 19.78                       | 19.72                |                     |
| 15              | 64QAM      | 1       | 0         | 19.67               | 19.43                      | 19.44                  | 19.51                       | 19.31                |                     |
| 15              | 64QAM      | 1       | 37        | 19.65               | 19.72                      | 19.72                  | 19.65                       | 19.61                | 20.5                |
| 15              | 64QAM      | 1       | 74        | 19.62               | 19.62                      | 19.55                  | 19.44                       | 19.63                |                     |
| 15              | 64QAM      | 36      | 0         | 19.87               | 19.70                      | 19.81                  | 19.71                       | 19.64                |                     |
| 15              | 64QAM      | 36      | 20        | 19.88               | 19.88                      | 19.98                  | 19.83                       | 19.87                |                     |
| 15              | 64QAM      | 36      | 39        | 19.85               | 19.76                      | 19.92                  | 19.71                       | 19.84                |                     |
| 15              | 64QAM      | 75      | 0         | 19.84               | 19.80                      | 19.90                  | 19.76                       | 19.71                |                     |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |
| 10              | QPSK       | 1       | 0         | 19.45               | 19.20                      | 19.28                  | 19.16                       | 19.19                | 20.5                |
| 10              | QPSK       | 1       | 25        | 19.44               | 19.47                      | 19.54                  | 19.43                       | 19.44                |                     |
| 10              | QPSK       | 1       | 49        | 19.50               | 19.27                      | 19.34                  | 19.27                       | 19.19                |                     |
| 10              | QPSK       | 25      | 0         | 19.84               | 19.49                      | 19.58                  | 19.46                       | 19.50                |                     |
| 10              | QPSK       | 25      | 12        | 19.85               | 19.64                      | 19.73                  | 19.53                       | 19.65                |                     |
| 10              | QPSK       | 25      | 25        | 19.62               | 19.55                      | 19.65                  | 19.52                       | 19.54                | 20.5                |
| 10              | QPSK       | 50      | 0         | 19.69               | 19.59                      | 19.64                  | 19.48                       | 19.58                |                     |
| 10              | 16QAM      | 1       | 0         | 19.85               | 19.57                      | 19.67                  | 19.54                       | 19.52                |                     |
| 10              | 16QAM      | 1       | 25        | 19.81               | 19.66                      | 19.67                  | 19.60                       | 19.79                |                     |
| 10              | 16QAM      | 1       | 49        | 19.80               | 19.58                      | 19.64                  | 19.55                       | 19.54                |                     |
| 10              | 16QAM      | 25      | 0         | 19.69               | 19.56                      | 19.62                  | 19.52                       | 19.52                | 20.5                |
| 10              | 16QAM      | 25      | 12        | 19.72               | 19.77                      | 19.80                  | 19.62                       | 19.71                |                     |
| 10              | 16QAM      | 25      | 25        | 19.67               | 19.63                      | 19.67                  | 19.57                       | 19.61                |                     |
| 10              | 16QAM      | 50      | 0         | 19.63               | 19.67                      | 19.69                  | 19.52                       | 19.62                |                     |
| 10              | 64QAM      | 1       | 0         | 19.78               | 19.47                      | 19.49                  | 19.40                       | 19.46                |                     |
| 10              | 64QAM      | 1       | 25        | 19.79               | 19.84                      | 19.83                  | 19.82                       | 19.78                | 20.5                |
| 10              | 64QAM      | 1       | 49        | 19.75               | 19.60                      | 19.57                  | 19.46                       | 19.50                |                     |
| 10              | 64QAM      | 25      | 0         | 19.76               | 19.58                      | 19.67                  | 19.53                       | 19.60                |                     |
| 10              | 64QAM      | 25      | 12        | 19.77               | 19.76                      | 19.80                  | 19.64                       | 19.76                |                     |
| 10              | 64QAM      | 25      | 25        | 19.73               | 19.66                      | 19.72                  | 19.58                       | 19.67                |                     |
| 10              | 64QAM      | 50      | 0         | 19.61               | 19.65                      | 19.68                  | 19.49                       | 19.64                |                     |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.39                     | 2687.5               |                     |
| 5               | QPSK       | 1       | 0         | 19.63               | 19.44                      | 19.50                  | 19.38                       | 19.47                | 20.5                |
| 5               | QPSK       | 1       | 12        | 19.43               | 19.48                      | 19.57                  | 19.47                       | 19.40                |                     |
| 5               | QPSK       | 1       | 24        | 19.46               | 19.54                      | 19.53                  | 19.43                       | 19.43                |                     |
| 5               | QPSK       | 12      | 0         | 19.64               | 19.61                      | 19.65                  | 19.53                       | 19.64                |                     |
| 5               | QPSK       | 12      | 7         | 19.71               | 19.67                      | 19.74                  | 19.59                       | 19.66                |                     |
| 5               | QPSK       | 12      | 13        | 19.66               | 19.66                      | 19.73                  | 19.60                       | 19.61                | 20.5                |
| 5               | QPSK       | 25      | 0         | 19.60               | 19.60                      | 19.69                  | 19.51                       | 19.60                |                     |
| 5               | 16QAM      | 1       | 0         | 19.78               | 19.61                      | 19.79                  | 19.63                       | 19.73                |                     |
| 5               | 16QAM      | 1       | 12        | 19.76               | 19.66                      | 19.84                  | 19.67                       | 19.70                |                     |
| 5               | 16QAM      | 1       | 24        | 19.77               | 19.64                      | 19.84                  | 19.68                       | 19.69                |                     |
| 5               | 16QAM      | 12      | 0         | 19.71               | 19.65                      | 19.72                  | 19.55                       | 19.67                | 20.5                |
| 5               | 16QAM      | 12      | 7         | 19.74               | 19.72                      | 19.80                  | 19.59                       | 19.70                |                     |
| 5               | 16QAM      | 12      | 13        | 19.67               | 19.68                      | 19.75                  | 19.63                       | 19.66                |                     |
| 5               | 16QAM      | 25      | 0         | 19.68               | 19.70                      | 19.78                  | 19.59                       | 19.67                |                     |
| 5               | 64QAM      | 1       | 0         | 19.73               | 19.63                      | 19.67                  | 19.55                       | 19.66                |                     |
| 5               | 64QAM      | 1       | 12        | 19.70               | 19.76                      | 19.77                  | 19.64                       | 19.71                | 20.5                |
| 5               | 64QAM      | 1       | 24        | 19.73               | 19.71                      | 19.75                  | 19.62                       | 19.66                |                     |
| 5               | 64QAM      | 12      | 0         | 19.73               | 19.65                      | 19.71                  | 19.56                       | 19.69                |                     |
| 5               | 64QAM      | 12      | 7         | 19.74               | 19.72                      | 19.79                  | 19.64                       | 19.72                |                     |
| 5               | 64QAM      | 12      | 13        | 19.69               | 19.72                      | 19.78                  | 19.64                       | 19.69                |                     |
| 5               | 64QAM      | 25      | 0         | 19.74               | 19.71                      | 19.77                  | 19.60                       | 19.69                |                     |



| Band 41_Ant 2   |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2500                | 2543.5                     | 2587                   | 2630.5                      | 2674                 |                     |  |
| 20              | QPSK       | 1       | 0         | 19.86               | 19.65                      | 19.38                  | 19.38                       | 19.19                | 20.5                |  |
| 20              | QPSK       | 1       | 49        | 19.82               | 19.63                      | 19.71                  | 19.61                       | 19.58                |                     |  |
| 20              | QPSK       | 1       | 99        | 19.83               | 19.89                      | 19.44                  | 19.21                       | 19.53                |                     |  |
| 20              | QPSK       | 50      | 0         | 19.83               | 19.74                      | 19.73                  | 19.68                       | 19.60                |                     |  |
| 20              | QPSK       | 50      | 24        | 19.83               | 19.85                      | 19.83                  | 19.73                       | 19.75                |                     |  |
| 20              | QPSK       | 50      | 50        | 19.78               | 19.84                      | 19.85                  | 19.85                       | 19.82                | 20.5                |  |
| 20              | QPSK       | 100     | 0         | 19.77               | 19.74                      | 19.84                  | 19.85                       | 19.87                |                     |  |
| 20              | 16QAM      | 1       | 0         | 20.13               | 20.12                      | 19.76                  | 19.74                       | 19.60                |                     |  |
| 20              | 16QAM      | 1       | 49        | 20.00               | 20.08                      | 20.12                  | 19.97                       | 19.94                |                     |  |
| 20              | 16QAM      | 1       | 99        | 19.87               | 20.16                      | 19.84                  | 19.59                       | 19.85                |                     |  |
| 20              | 16QAM      | 50      | 0         | 19.86               | 19.77                      | 19.77                  | 19.71                       | 19.82                | 20.5                |  |
| 20              | 16QAM      | 50      | 24        | 19.88               | 19.88                      | 19.88                  | 19.78                       | 19.79                |                     |  |
| 20              | 16QAM      | 50      | 50        | 19.82               | 19.87                      | 19.91                  | 19.71                       | 19.87                |                     |  |
| 20              | 16QAM      | 100     | 0         | 19.79               | 19.76                      | 19.87                  | 19.66                       | 19.70                |                     |  |
| 20              | 64QAM      | 1       | 0         | 19.85               | 19.80                      | 19.58                  | 19.55                       | 19.36                |                     |  |
| 20              | 64QAM      | 1       | 49        | 19.84               | 19.84                      | 19.87                  | 19.83                       | 19.78                | 20.5                |  |
| 20              | 64QAM      | 1       | 99        | 19.83               | 20.02                      | 19.67                  | 19.44                       | 19.75                |                     |  |
| 20              | 64QAM      | 50      | 0         | 19.88               | 19.75                      | 19.77                  | 19.71                       | 19.61                |                     |  |
| 20              | 64QAM      | 50      | 24        | 19.89               | 19.86                      | 19.87                  | 19.74                       | 19.80                |                     |  |
| 20              | 64QAM      | 50      | 50        | 19.84               | 19.88                      | 19.88                  | 19.68                       | 19.82                |                     |  |
| 20              | 64QAM      | 100     | 0         | 19.80               | 19.79                      | 19.84                  | 19.85                       | 19.87                | 20.5                |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                |                     |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 19.73               | 19.43                      | 19.54                  | 19.49                       | 19.37                | 20.5                |  |
| 15              | QPSK       | 1       | 37        | 19.69               | 19.63                      | 19.76                  | 19.60                       | 19.66                |                     |  |
| 15              | QPSK       | 1       | 74        | 19.68               | 19.44                      | 19.63                  | 19.37                       | 19.65                |                     |  |
| 15              | QPSK       | 36      | 0         | 19.86               | 19.68                      | 19.75                  | 19.68                       | 19.64                |                     |  |
| 15              | QPSK       | 36      | 20        | 19.83               | 19.85                      | 19.91                  | 19.78                       | 19.85                |                     |  |
| 15              | QPSK       | 36      | 39        | 19.81               | 19.77                      | 19.89                  | 19.71                       | 19.83                | 20.5                |  |
| 15              | QPSK       | 75      | 0         | 19.81               | 19.76                      | 19.67                  | 19.71                       | 19.67                |                     |  |
| 15              | 16QAM      | 1       | 0         | 20.03               | 19.90                      | 19.87                  | 19.88                       | 19.74                |                     |  |
| 15              | 16QAM      | 1       | 37        | 20.06               | 20.18                      | 20.10                  | 19.99                       | 20.00                |                     |  |
| 15              | 16QAM      | 1       | 74        | 19.99               | 19.91                      | 19.99                  | 19.81                       | 19.96                |                     |  |
| 15              | 16QAM      | 36      | 0         | 19.86               | 19.69                      | 19.76                  | 19.69                       | 19.62                | 20.5                |  |
| 15              | 16QAM      | 36      | 20        | 19.83               | 19.84                      | 19.91                  | 19.80                       | 19.82                |                     |  |
| 15              | 16QAM      | 36      | 39        | 19.81               | 19.77                      | 19.89                  | 19.71                       | 19.82                |                     |  |
| 15              | 16QAM      | 75      | 0         | 19.84               | 19.82                      | 19.88                  | 19.77                       | 19.72                |                     |  |
| 15              | 64QAM      | 1       | 0         | 19.85               | 19.68                      | 19.72                  | 19.71                       | 19.57                |                     |  |
| 15              | 64QAM      | 1       | 37        | 19.83               | 20.03                      | 19.94                  | 19.85                       | 19.86                | 20.5                |  |
| 15              | 64QAM      | 1       | 74        | 19.80               | 19.85                      | 19.80                  | 19.63                       | 19.84                |                     |  |
| 15              | 64QAM      | 36      | 0         | 19.87               | 19.72                      | 19.76                  | 19.71                       | 19.64                |                     |  |
| 15              | 64QAM      | 36      | 20        | 19.89               | 19.86                      | 19.95                  | 19.80                       | 19.83                |                     |  |
| 15              | 64QAM      | 36      | 39        | 19.87               | 19.79                      | 19.91                  | 19.72                       | 19.83                |                     |  |
| 15              | 64QAM      | 75      | 0         | 19.84               | 19.80                      | 19.90                  | 19.77                       | 19.69                | 20.5                |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 19.53               | 19.21                      | 19.28                  | 19.14                       | 19.20                | 20.5                |  |
| 10              | QPSK       | 1       | 25        | 19.44               | 19.51                      | 19.54                  | 19.44                       | 19.45                |                     |  |
| 10              | QPSK       | 1       | 49        | 19.46               | 19.33                      | 19.35                  | 19.27                       | 19.27                |                     |  |
| 10              | QPSK       | 25      | 0         | 19.85               | 19.52                      | 19.61                  | 19.45                       | 19.53                |                     |  |
| 10              | QPSK       | 25      | 12        | 19.87               | 19.68                      | 19.77                  | 19.55                       | 19.67                |                     |  |
| 10              | QPSK       | 25      | 25        | 19.66               | 19.56                      | 19.67                  | 19.52                       | 19.57                | 20.5                |  |
| 10              | QPSK       | 50      | 0         | 19.60               | 19.62                      | 19.68                  | 19.48                       | 19.59                |                     |  |
| 10              | 16QAM      | 1       | 0         | 19.91               | 19.59                      | 19.69                  | 19.52                       | 19.57                |                     |  |
| 10              | 16QAM      | 1       | 25        | 19.84               | 19.86                      | 19.88                  | 19.76                       | 19.80                |                     |  |
| 10              | 16QAM      | 1       | 49        | 19.82               | 19.60                      | 19.69                  | 19.56                       | 19.54                |                     |  |
| 10              | 16QAM      | 25      | 0         | 19.69               | 19.56                      | 19.64                  | 19.53                       | 19.53                | 20.5                |  |
| 10              | 16QAM      | 25      | 12        | 19.72               | 19.74                      | 19.81                  | 19.63                       | 19.71                |                     |  |
| 10              | 16QAM      | 25      | 25        | 19.66               | 19.63                      | 19.68                  | 19.57                       | 19.60                |                     |  |
| 10              | 16QAM      | 50      | 0         | 19.85               | 19.86                      | 19.71                  | 19.54                       | 19.64                |                     |  |
| 10              | 64QAM      | 1       | 0         | 19.83               | 19.50                      | 19.52                  | 19.42                       | 19.48                |                     |  |
| 10              | 64QAM      | 1       | 25        | 19.75               | 19.99                      | 19.84                  | 19.78                       | 19.77                | 20.5                |  |
| 10              | 64QAM      | 1       | 49        | 19.71               | 19.62                      | 19.54                  | 19.45                       | 19.53                |                     |  |
| 10              | 64QAM      | 25      | 0         | 19.76               | 19.62                      | 19.65                  | 19.55                       | 19.62                |                     |  |
| 10              | 64QAM      | 25      | 12        | 19.76               | 19.79                      | 19.86                  | 19.63                       | 19.79                |                     |  |
| 10              | 64QAM      | 25      | 25        | 19.74               | 19.67                      | 19.73                  | 19.61                       | 19.68                |                     |  |
| 10              | 64QAM      | 50      | 0         | 19.62               | 19.63                      | 19.69                  | 19.50                       | 19.63                | 20.5                |  |
| Channel         |            |         |           | 38675               | 40146                      | 40620                  | 41093                       | 41565                |                     |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.39                     | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 19.50               | 19.50                      | 19.50                  | 19.42                       | 19.48                | 20.5                |  |
| 5               | QPSK       | 1       | 12        | 19.46               | 19.47                      | 19.56                  | 19.48                       | 19.48                |                     |  |
| 5               | QPSK       | 1       | 24        | 19.50               | 19.52                      | 19.50                  | 19.45                       | 19.44                |                     |  |
| 5               | QPSK       | 12      | 0         | 19.68               | 19.60                      | 19.70                  | 19.54                       | 19.64                |                     |  |
| 5               | QPSK       | 12      | 7         | 19.73               | 19.69                      | 19.77                  | 19.55                       | 19.66                |                     |  |
| 5               | QPSK       | 12      | 13        | 19.66               | 19.66                      | 19.73                  | 19.61                       | 19.63                | 20.5                |  |
| 5               | QPSK       | 25      | 0         | 19.63               | 19.60                      | 19.72                  | 19.52                       | 19.61                |                     |  |
| 5               | 16QAM      | 1       | 0         | 19.83               | 19.61                      | 19.79                  | 19.63                       | 19.70                |                     |  |
| 5               | 16QAM      | 1       | 12        | 19.75               | 19.67                      | 19.86                  | 19.69                       | 19.69                |                     |  |
| 5               | 16QAM      | 1       | 24        | 19.83               | 19.71                      | 19.87                  | 19.68                       | 19.70                |                     |  |
| 5               | 16QAM      | 12      | 0         | 19.71               | 19.66                      | 19.72                  | 19.57                       | 19.68                | 20.5                |  |
| 5               | 16QAM      | 12      | 7         | 19.74               | 19.71                      | 19.77                  | 19.58                       | 19.67                |                     |  |
| 5               | 16QAM      | 12      | 13        | 19.70               | 19.72                      | 19.76                  | 19.65                       | 19.62                |                     |  |
| 5               | 16QAM      | 25      | 0         | 19.72               | 19.71                      | 19.78                  | 19.59                       | 19.68                |                     |  |
| 5               | 64QAM      | 1       | 0         | 19.73               | 19.65                      | 19.68                  | 19.56                       | 19.69                |                     |  |
| 5               | 64QAM      | 1       | 12        | 19.73               | 19.75                      | 19.77                  | 19.69                       | 19.69                | 20.5                |  |
| 5               | 64QAM      | 1       | 24        | 19.72               | 19.73                      | 19.76                  | 19.66                       | 19.68                |                     |  |
| 5               | 64QAM      | 12      | 0         | 19.73               | 19.67                      | 19.74                  | 19.61                       | 19.72                |                     |  |
| 5               | 64QAM      | 12      | 7         | 19.75               | 19.73                      | 19.80                  | 19.61                       | 19.75                |                     |  |
| 5               | 64QAM      | 12      | 13        | 19.72               | 19.73                      | 19.77                  | 19.64                       | 19.69                |                     |  |
| 5               | 64QAM      | 25      | 0         | 19.73               | 19.71                      | 19.80                  | 19.58                       | 19.70                | 20.5                |  |

| Band 38_Ant 2   |            |         |           |                      |                         |                       |                     |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Middle Ch / Freq. | Power High Ch / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 37650                | 38000                   | 38150                 | 19                  |
| Frequency (MHz) |            |         |           | 2568                 | 2595                    | 2610                  |                     |
| 20              | QPSK       | 1       | 0         | 18.15                | 18.14                   | 18.11                 | 19                  |
| 20              | QPSK       | 1       | 49        | 18.19                | 18.18                   | 18.12                 |                     |
| 20              | QPSK       | 1       | 99        | 18.19                | 18.14                   | 18.08                 | 19                  |
| 20              | QPSK       | 50      | 0         | 18.03                | 18.02                   | 17.97                 |                     |
| 20              | QPSK       | 50      | 24        | 18.24                | 18.21                   | 18.08                 | 19                  |
| 20              | QPSK       | 50      | 50        | 18.15                | 18.12                   | 18.07                 |                     |
| 20              | QPSK       | 100     | 0         | 18.14                | 18.11                   | 18.00                 | 19                  |
| 20              | 16QAM      | 1       | 0         | 18.35                | 18.34                   | 18.25                 |                     |
| 20              | 16QAM      | 1       | 49        | 18.29                | 18.22                   | 18.22                 | 19                  |
| 20              | 16QAM      | 1       | 99        | 18.31                | 18.27                   | 18.23                 |                     |
| 20              | 16QAM      | 50      | 0         | 18.05                | 18.07                   | 18.02                 | 19                  |
| 20              | 16QAM      | 50      | 24        | 18.28                | 18.27                   | 18.13                 |                     |
| 20              | 16QAM      | 50      | 50        | 18.20                | 18.18                   | 18.12                 | 19                  |
| 20              | 16QAM      | 100     | 0         | 18.18                | 18.14                   | 18.02                 |                     |
| 20              | 64QAM      | 1       | 0         | 18.03                | 18.10                   | 18.03                 | 19                  |
| 20              | 64QAM      | 1       | 49        | 18.08                | 18.03                   | 18.05                 |                     |
| 20              | 64QAM      | 1       | 99        | 18.14                | 18.07                   | 18.05                 | 19                  |
| 20              | 64QAM      | 50      | 0         | 18.10                | 18.07                   | 18.03                 |                     |
| 20              | 64QAM      | 50      | 24        | 18.32                | 18.28                   | 18.14                 | 19                  |
| 20              | 64QAM      | 50      | 50        | 18.21                | 18.18                   | 18.13                 |                     |
| 20              | 64QAM      | 100     | 0         | 18.19                | 18.15                   | 18.03                 | 19                  |
| Channel         |            |         |           | 37625                | 38000                   | 38175                 |                     |
| Frequency (MHz) |            |         |           | 2577.5               | 2595                    | 2612.5                | 19                  |
| 15              | QPSK       | 1       | 0         | 18.15                | 18.13                   | 18.08                 |                     |
| 15              | QPSK       | 1       | 37        | 18.15                | 18.10                   | 17.88                 | 19                  |
| 15              | QPSK       | 1       | 74        | 18.15                | 18.13                   | 18.03                 |                     |
| 15              | QPSK       | 36      | 0         | 18.10                | 18.07                   | 18.01                 | 19                  |
| 15              | QPSK       | 36      | 20        | 18.27                | 18.21                   | 18.11                 |                     |
| 15              | QPSK       | 36      | 39        | 18.17                | 18.15                   | 18.09                 | 19                  |
| 15              | QPSK       | 75      | 0         | 18.10                | 18.16                   | 18.01                 |                     |
| 15              | 16QAM      | 1       | 0         | 18.30                | 18.29                   | 18.21                 | 19                  |
| 15              | 16QAM      | 1       | 37        | 18.23                | 18.20                   | 18.19                 |                     |
| 15              | 16QAM      | 1       | 74        | 18.34                | 18.26                   | 18.20                 | 19                  |
| 15              | 16QAM      | 36      | 0         | 18.11                | 18.06                   | 17.96                 |                     |
| 15              | 16QAM      | 36      | 20        | 18.24                | 18.20                   | 18.04                 | 19                  |
| 15              | 16QAM      | 36      | 39        | 18.20                | 18.12                   | 18.09                 |                     |
| 15              | 16QAM      | 75      | 0         | 18.24                | 18.19                   | 18.04                 | 19                  |
| 15              | 64QAM      | 1       | 0         | 17.99                | 18.01                   | 17.95                 |                     |
| 15              | 64QAM      | 1       | 37        | 18.08                | 18.01                   | 18.04                 | 19                  |
| 15              | 64QAM      | 1       | 74        | 18.11                | 17.97                   | 18.00                 |                     |
| 15              | 64QAM      | 36      | 0         | 18.16                | 18.10                   | 18.05                 | 19                  |
| 15              | 64QAM      | 36      | 20        | 18.32                | 18.28                   | 18.15                 |                     |
| 15              | 64QAM      | 36      | 39        | 18.24                | 18.19                   | 18.15                 | 19                  |
| 15              | 64QAM      | 75      | 0         | 18.23                | 18.19                   | 18.08                 |                     |
| Channel         |            |         |           | 37600                | 38000                   | 38200                 | 19                  |
| Frequency (MHz) |            |         |           | 2575                 | 2595                    | 2615                  |                     |
| 10              | QPSK       | 1       | 0         | 18.15                | 18.11                   | 18.08                 | 19                  |
| 10              | QPSK       | 1       | 25        | 18.10                | 18.15                   | 17.91                 |                     |
| 10              | QPSK       | 1       | 49        | 18.24                | 18.22                   | 18.04                 | 19                  |
| 10              | QPSK       | 25      | 0         | 18.08                | 17.97                   | 17.95                 |                     |
| 10              | QPSK       | 25      | 12        | 18.29                | 18.11                   | 18.19                 | 19                  |
| 10              | QPSK       | 25      | 25        | 18.27                | 18.23                   | 18.08                 |                     |
| 10              | QPSK       | 50      | 0         | 18.24                | 18.18                   | 18.10                 | 19                  |
| 10              | 16QAM      | 1       | 0         | 18.21                | 18.34                   | 18.23                 |                     |
| 10              | 16QAM      | 1       | 25        | 18.25                | 18.24                   | 18.12                 | 19                  |
| 10              | 16QAM      | 1       | 49        | 18.32                | 18.31                   | 18.27                 |                     |
| 10              | 16QAM      | 25      | 0         | 18.04                | 18.01                   | 17.99                 | 19                  |
| 10              | 16QAM      | 25      | 12        | 18.26                | 18.20                   | 18.08                 |                     |
| 10              | 16QAM      | 25      | 25        | 18.10                | 18.09                   | 18.03                 | 19                  |
| 10              | 16QAM      | 50      | 0         | 18.34                | 18.11                   | 17.96                 |                     |
| 10              | 64QAM      | 1       | 0         | 18.09                | 18.06                   | 17.99                 | 19                  |
| 10              | 64QAM      | 1       | 25        | 18.02                | 17.92                   | 18.11                 |                     |
| 10              | 64QAM      | 1       | 49        | 18.20                | 17.91                   | 17.98                 | 19                  |
| 10              | 64QAM      | 25      | 0         | 18.07                | 18.03                   | 18.00                 |                     |
| 10              | 64QAM      | 25      | 12        | 18.27                | 18.27                   | 18.08                 | 19                  |
| 10              | 64QAM      | 25      | 25        | 18.26                | 18.12                   | 18.12                 |                     |
| 10              | 64QAM      | 50      | 0         | 18.21                | 18.20                   | 18.09                 | 19                  |
| Channel         |            |         |           | 37775                | 38000                   | 38225                 |                     |
| Frequency (MHz) |            |         |           | 2572.5               | 2595                    | 2617.5                | 19                  |
| 5               | QPSK       | 1       | 0         | 18.25                | 18.03                   | 18.07                 |                     |
| 5               | QPSK       | 1       | 12        | 18.10                | 18.04                   | 17.92                 | 19                  |
| 5               | QPSK       | 1       | 24        | 18.09                | 18.16                   | 17.95                 |                     |
| 5               | QPSK       | 12      | 0         | 18.10                | 18.06                   | 17.97                 | 19                  |
| 5               | QPSK       | 12      | 7         | 18.26                | 18.13                   | 18.06                 |                     |
| 5               | QPSK       | 12      | 13        | 18.16                | 18.18                   | 18.13                 | 19                  |
| 5               | QPSK       | 25      | 0         | 18.20                | 18.06                   | 18.08                 |                     |
| 5               | 16QAM      | 1       | 0         | 18.28                | 18.21                   | 18.28                 | 19                  |
| 5               | 16QAM      | 1       | 12        | 18.31                | 18.28                   | 18.23                 |                     |
| 5               | 16QAM      | 1       | 24        | 18.35                | 18.24                   | 18.17                 | 19                  |
| 5               | 16QAM      | 12      | 0         | 18.06                | 17.96                   | 17.94                 |                     |
| 5               | 16QAM      | 12      | 7         | 18.17                | 18.17                   | 18.10                 | 19                  |
| 5               | 16QAM      | 12      | 13        | 18.16                | 18.06                   | 18.12                 |                     |
| 5               | 16QAM      | 25      | 0         | 18.34                | 18.14                   | 18.01                 | 19                  |
| 5               | 64QAM      | 1       | 0         | 18.00                | 18.02                   | 17.89                 |                     |
| 5               | 64QAM      | 1       | 12        | 18.12                | 18.08                   | 18.13                 | 19                  |
| 5               | 64QAM      | 1       | 24        | 18.13                | 17.96                   | 17.96                 |                     |
| 5               | 64QAM      | 12      | 0         | 18.19                | 18.14                   | 18.16                 | 19                  |
| 5               | 64QAM      | 12      | 7         | 18.32                | 18.23                   | 18.14                 |                     |
| 5               | 64QAM      | 12      | 13        | 18.34                | 18.20                   | 18.09                 | 19                  |
| 5               | 64QAM      | 25      | 0         | 18.14                | 18.23                   | 18.10                 |                     |

| Band 41_Ant 2   |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2500                | 2543.5                     | 2587                   | 2630.5                      | 2674                 |                     |  |
| 20              | QPSK       | 1       | 0         | 18.71               | 18.65                      | 18.48                  | 18.45                       | 18.32                | 19.5                |  |
| 20              | QPSK       | 1       | 49        | 18.73               | 18.70                      | 18.82                  | 18.76                       | 18.70                |                     |  |
| 20              | QPSK       | 1       | 99        | 18.86               | 18.70                      | 18.53                  | 18.34                       | 18.63                |                     |  |
| 20              | QPSK       | 50      | 0         | 18.77               | 18.68                      | 18.71                  | 18.67                       | 18.59                |                     |  |
| 20              | QPSK       | 50      | 24        | 18.77               | 18.80                      | 18.92                  | 18.72                       | 18.75                |                     |  |
| 20              | QPSK       | 50      | 50        | 18.72               | 18.76                      | 18.85                  | 18.85                       | 18.81                | 19.5                |  |
| 20              | QPSK       | 100     | 0         | 18.69               | 18.68                      | 18.81                  | 18.63                       | 18.66                |                     |  |
| 20              | 16QAM      | 1       | 0         | 18.93               | 18.75                      | 18.80                  | 18.63                       | 18.44                |                     |  |
| 20              | 16QAM      | 1       | 49        | 18.79               | 18.72                      | 18.94                  | 18.92                       | 18.82                |                     |  |
| 20              | 16QAM      | 1       | 99        | 18.77               | 18.85                      | 18.68                  | 18.51                       | 18.75                |                     |  |
| 20              | 16QAM      | 50      | 0         | 18.91               | 18.75                      | 18.74                  | 18.71                       | 18.64                | 19.5                |  |
| 20              | 16QAM      | 50      | 24        | 18.82               | 18.86                      | 18.97                  | 18.78                       | 18.78                |                     |  |
| 20              | 16QAM      | 50      | 50        | 18.77               | 18.85                      | 18.89                  | 18.72                       | 18.83                |                     |  |
| 20              | 16QAM      | 100     | 0         | 18.71               | 18.74                      | 18.85                  | 18.65                       | 18.71                |                     |  |
| 20              | 64QAM      | 1       | 0         | 18.65               | 18.73                      | 18.29                  | 18.43                       | 18.13                |                     |  |
| 20              | 64QAM      | 1       | 49        | 18.57               | 18.64                      | 18.71                  | 18.65                       | 18.57                | 19.5                |  |
| 20              | 64QAM      | 1       | 99        | 18.53               | 18.87                      | 18.37                  | 18.29                       | 18.51                |                     |  |
| 20              | 64QAM      | 50      | 0         | 18.83               | 18.74                      | 18.77                  | 18.72                       | 18.64                |                     |  |
| 20              | 64QAM      | 50      | 24        | 18.83               | 18.83                      | 18.95                  | 18.78                       | 18.80                |                     |  |
| 20              | 64QAM      | 50      | 50        | 18.76               | 18.82                      | 18.90                  | 18.69                       | 18.85                |                     |  |
| 20              | 64QAM      | 100     | 0         | 18.73               | 18.74                      | 18.86                  | 18.69                       | 18.70                | 19.5                |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                |                     |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 18.72               | 18.49                      | 18.55                  | 18.50                       | 18.39                | 19.5                |  |
| 15              | QPSK       | 1       | 37        | 18.64               | 18.71                      | 18.76                  | 18.56                       | 18.66                |                     |  |
| 15              | QPSK       | 1       | 74        | 18.65               | 18.49                      | 18.63                  | 18.38                       | 18.65                |                     |  |
| 15              | QPSK       | 36      | 0         | 18.79               | 18.63                      | 18.74                  | 18.69                       | 18.62                |                     |  |
| 15              | QPSK       | 36      | 20        | 18.80               | 18.76                      | 18.93                  | 18.82                       | 18.84                |                     |  |
| 15              | QPSK       | 36      | 39        | 18.74               | 18.72                      | 18.86                  | 18.71                       | 18.81                | 19.5                |  |
| 15              | QPSK       | 75      | 0         | 18.75               | 18.72                      | 18.86                  | 18.73                       | 18.69                |                     |  |
| 15              | 16QAM      | 1       | 0         | 18.99               | 18.54                      | 18.77                  | 18.80                       | 18.62                |                     |  |
| 15              | 16QAM      | 1       | 37        | 18.78               | 18.65                      | 18.93                  | 18.91                       | 18.85                |                     |  |
| 15              | 16QAM      | 1       | 74        | 18.84               | 18.60                      | 18.82                  | 18.70                       | 18.89                |                     |  |
| 15              | 16QAM      | 36      | 0         | 18.77               | 18.65                      | 18.72                  | 18.69                       | 18.60                | 19.5                |  |
| 15              | 16QAM      | 36      | 20        | 18.77               | 18.79                      | 18.90                  | 18.79                       | 18.81                |                     |  |
| 15              | 16QAM      | 36      | 39        | 18.73               | 18.70                      | 18.85                  | 18.72                       | 18.81                |                     |  |
| 15              | 16QAM      | 75      | 0         | 18.76               | 18.77                      | 18.88                  | 18.77                       | 18.73                |                     |  |
| 15              | 64QAM      | 1       | 0         | 18.64               | 18.49                      | 18.43                  | 18.44                       | 18.32                |                     |  |
| 15              | 64QAM      | 1       | 37        | 18.69               | 18.71                      | 18.73                  | 18.67                       | 18.62                | 19.5                |  |
| 15              | 64QAM      | 1       | 74        | 18.58               | 18.54                      | 18.58                  | 18.45                       | 18.63                |                     |  |
| 15              | 64QAM      | 36      | 0         | 18.93               | 18.67                      | 18.79                  | 18.73                       | 18.68                |                     |  |
| 15              | 64QAM      | 36      | 20        | 18.83               | 18.85                      | 18.95                  | 18.85                       | 18.85                |                     |  |
| 15              | 64QAM      | 36      | 39        | 18.78               | 18.74                      | 18.93                  | 18.74                       | 18.84                |                     |  |
| 15              | 64QAM      | 75      | 0         | 18.77               | 18.77                      | 18.91                  | 18.75                       | 18.72                | 19.5                |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2638                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 18.80               | 18.44                      | 18.48                  | 18.48                       | 18.34                | 19.5                |  |
| 10              | QPSK       | 1       | 25        | 18.61               | 18.71                      | 18.80                  | 18.59                       | 18.72                |                     |  |
| 10              | QPSK       | 1       | 49        | 18.69               | 18.41                      | 18.54                  | 18.47                       | 18.56                |                     |  |
| 10              | QPSK       | 25      | 0         | 18.69               | 18.56                      | 18.76                  | 18.75                       | 18.66                |                     |  |
| 10              | QPSK       | 25      | 12        | 18.75               | 18.72                      | 18.87                  | 18.89                       | 18.81                |                     |  |
| 10              | QPSK       | 25      | 25        | 18.67               | 18.82                      | 18.84                  | 18.81                       | 18.87                | 19.5                |  |
| 10              | QPSK       | 50      | 0         | 18.68               | 18.62                      | 18.95                  | 18.71                       | 18.66                |                     |  |
| 10              | 16QAM      | 1       | 0         | 18.84               | 18.54                      | 18.77                  | 18.67                       | 18.58                |                     |  |
| 10              | 16QAM      | 1       | 25        | 18.84               | 18.70                      | 18.95                  | 18.81                       | 18.84                |                     |  |
| 10              | 16QAM      | 1       | 49        | 18.76               | 18.57                      | 18.92                  | 18.67                       | 18.84                |                     |  |
| 10              | 16QAM      | 25      | 0         | 18.77               | 18.63                      | 18.63                  | 18.69                       | 18.53                | 19.5                |  |
| 10              | 16QAM      | 25      | 12        | 18.76               | 18.71                      | 18.93                  | 18.81                       | 18.78                |                     |  |
| 10              | 16QAM      | 25      | 25        | 18.88               | 18.76                      | 18.91                  | 18.68                       | 18.74                |                     |  |
| 10              | 16QAM      | 50      | 0         | 18.81               | 18.67                      | 18.81                  | 18.62                       | 18.76                |                     |  |
| 10              | 64QAM      | 1       | 0         | 18.55               | 18.49                      | 18.48                  | 18.42                       | 18.22                |                     |  |
| 10              | 64QAM      | 1       | 25        | 18.55               | 18.66                      | 18.66                  | 18.75                       | 18.56                | 19.5                |  |
| 10              | 64QAM      | 1       | 49        | 18.48               | 18.58                      | 18.60                  | 18.51                       | 18.66                |                     |  |
| 10              | 64QAM      | 25      | 0         | 18.73               | 18.65                      | 18.81                  | 18.72                       | 18.58                |                     |  |
| 10              | 64QAM      | 25      | 12        | 18.86               | 18.76                      | 18.85                  | 18.85                       | 18.94                |                     |  |
| 10              | 64QAM      | 25      | 25        | 18.88               | 18.80                      | 18.87                  | 18.73                       | 18.74                |                     |  |
| 10              | 64QAM      | 50      | 0         | 18.86               | 18.80                      | 18.90                  | 18.69                       | 18.66                | 19.5                |  |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41093                       | 41565                |                     |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.38                     | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 18.67               | 18.56                      | 18.56                  | 18.48                       | 18.41                | 19.5                |  |
| 5               | QPSK       | 1       | 12        | 18.58               | 18.78                      | 18.89                  | 18.65                       | 18.82                |                     |  |
| 5               | QPSK       | 1       | 24        | 18.71               | 18.42                      | 18.54                  | 18.41                       | 18.56                |                     |  |
| 5               | QPSK       | 12      | 0         | 18.75               | 18.63                      | 18.78                  | 18.74                       | 18.54                |                     |  |
| 5               | QPSK       | 12      | 7         | 18.83               | 18.73                      | 18.85                  | 18.78                       | 18.91                |                     |  |
| 5               | QPSK       | 12      | 13        | 18.67               | 18.66                      | 18.87                  | 18.79                       | 18.79                | 19.5                |  |
| 5               | QPSK       | 25      | 0         | 18.77               | 18.62                      | 18.95                  | 18.63                       | 18.73                |                     |  |
| 5               | 16QAM      | 1       | 0         | 18.80               | 18.56                      | 18.80                  | 18.85                       | 18.68                |                     |  |
| 5               | 16QAM      | 1       | 12        | 18.88               | 18.63                      | 18.95                  | 18.92                       | 18.79                |                     |  |
| 5               | 16QAM      | 1       | 24        | 18.94               | 18.56                      | 18.81                  | 18.63                       | 18.86                |                     |  |
| 5               | 16QAM      | 12      | 0         | 18.73               | 18.66                      | 18.74                  | 18.72                       | 18.65                | 19.5                |  |
| 5               | 16QAM      | 12      | 7         | 18.79               | 18.82                      | 18.93                  | 18.75                       | 18.72                |                     |  |
| 5               | 16QAM      | 12      | 13        | 18.75               | 18.65                      | 18.80                  | 18.70                       | 18.72                |                     |  |
| 5               | 16QAM      | 25      | 0         | 18.76               | 18.71                      | 18.86                  | 18.81                       | 18.82                |                     |  |
| 5               | 64QAM      | 1       | 0         | 18.62               | 18.57                      | 18.47                  | 18.36                       | 18.27                |                     |  |
| 5               | 64QAM      | 1       | 12        | 18.63               | 18.64                      | 18.81                  | 18.71                       | 18.62                | 19.5                |  |
| 5               | 64QAM      | 1       | 24        | 18.59               | 18.52                      | 18.68                  | 18.50                       | 18.53                |                     |  |
| 5               | 64QAM      | 12      | 0         | 18.88               | 18.73                      | 18.88                  | 18.65                       | 18.65                |                     |  |
| 5               | 64QAM      | 12      | 7         | 18.76               | 18.93                      | 18.89                  | 18.85                       | 18.80                |                     |  |
| 5               | 64QAM      | 12      | 13        | 18.79               | 18.67                      | 18.90                  | 18.77                       | 18.67                |                     |  |
| 5               | 64QAM      | 25      | 0         | 18.73               | 18.75                      | 18.84                  | 18.77                       | 18.70                | 19.5                |  |



| Band 41 (2.6G Band)_Ant 2 |            |         |           |                              |                       |                              |                          |                               |                        |                     |
|---------------------------|------------|---------|-----------|------------------------------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| BW (MHz)                  | Modulation | RB Size | RB Offset | for IC Power Low Ch. / Freq. | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel                   |            |         |           | 39790                        | 39790                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz)           |            |         |           | 2510                         | 2508                  | 2549.5                       | 2593                     | 2634.5                        | 2670                   |                     |
| 20                        | QPSK       | 1       | 0         | 18.60                        | 18.61                 | 18.50                        | 18.38                    | 18.38                         | 18.21                  | 19.5                |
| 20                        | QPSK       | 1       | 49        | 18.56                        | 18.62                 | 18.57                        | 18.73                    | 18.63                         | 18.61                  |                     |
| 20                        | QPSK       | 1       | 99        | 18.55                        | 18.61                 | 18.60                        | 18.43                    | 18.21                         | 18.53                  |                     |
| 20                        | QPSK       | 50      | 0         | 18.77                        | 18.79                 | 18.68                        | 18.71                    | 18.68                         | 18.60                  |                     |
| 20                        | QPSK       | 50      | 24        | 18.76                        | 18.77                 | 18.78                        | 18.53                    | 18.74                         | 18.75                  |                     |
| 20                        | QPSK       | 50      | 50        | 18.73                        | 18.74                 | 18.76                        | 18.65                    | 18.68                         | 18.62                  | 19.5                |
| 20                        | QPSK       | 100     | 0         | 18.69                        | 18.70                 | 18.68                        | 18.81                    | 18.64                         | 18.66                  |                     |
| 20                        | 16QAM      | 1       | 0         | 19.03                        | 19.06                 | 18.89                        | 18.70                    | 18.93                         | 18.57                  |                     |
| 20                        | 16QAM      | 1       | 49        | 18.94                        | 19.00                 | 18.95                        | 19.10                    | 19.07                         | 19.01                  |                     |
| 20                        | 16QAM      | 1       | 99        | 18.95                        | 18.90                 | 18.98                        | 18.75                    | 18.65                         | 18.91                  |                     |
| 20                        | 16QAM      | 50      | 0         | 18.90                        | 18.94                 | 18.75                        | 18.75                    | 18.72                         | 18.64                  | 19.5                |
| 20                        | 16QAM      | 50      | 24        | 18.82                        | 18.82                 | 18.88                        | 18.96                    | 18.78                         | 18.79                  |                     |
| 20                        | 16QAM      | 50      | 50        | 18.78                        | 18.78                 | 18.87                        | 18.88                    | 18.73                         | 18.86                  |                     |
| 20                        | 16QAM      | 100     | 0         | 18.73                        | 18.74                 | 18.75                        | 18.84                    | 18.66                         | 18.72                  |                     |
| 20                        | 64QAM      | 1       | 0         | 18.91                        | 18.92                 | 18.93                        | 18.53                    | 18.70                         | 18.40                  |                     |
| 20                        | 64QAM      | 1       | 49        | 18.90                        | 18.95                 | 18.85                        | 18.98                    | 18.88                         | 18.93                  | 19.5                |
| 20                        | 64QAM      | 1       | 99        | 18.77                        | 18.81                 | 19.08                        | 18.64                    | 18.49                         | 18.79                  |                     |
| 20                        | 64QAM      | 50      | 0         | 18.81                        | 18.85                 | 18.75                        | 18.77                    | 18.71                         | 18.64                  |                     |
| 20                        | 64QAM      | 50      | 24        | 18.82                        | 18.84                 | 18.87                        | 18.97                    | 18.76                         | 18.80                  |                     |
| 20                        | 64QAM      | 50      | 50        | 18.78                        | 18.78                 | 18.84                        | 18.90                    | 18.69                         | 18.86                  |                     |
| 20                        | 64QAM      | 100     | 0         | 18.73                        | 18.78                 | 18.75                        | 18.86                    | 18.70                         | 18.70                  | 19.5                |
| Channel                   |            |         |           | 39785                        | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  |                     |
| Frequency (MHz)           |            |         |           | 2507.5                       | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15                        | QPSK       | 1       | 0         | 18.63                        | 18.67                 | 18.44                        | 18.53                    | 18.45                         | 18.35                  | 19.5                |
| 15                        | QPSK       | 1       | 37        | 18.58                        | 18.61                 | 18.65                        | 18.70                    | 18.59                         | 18.61                  |                     |
| 15                        | QPSK       | 1       | 74        | 18.59                        | 18.61                 | 18.43                        | 18.64                    | 18.23                         | 18.61                  |                     |
| 15                        | QPSK       | 36      | 0         | 18.75                        | 18.79                 | 18.63                        | 18.73                    | 18.68                         | 18.61                  |                     |
| 15                        | QPSK       | 36      | 20        | 18.75                        | 18.76                 | 18.77                        | 18.92                    | 18.80                         | 18.80                  |                     |
| 15                        | QPSK       | 36      | 39        | 18.73                        | 18.73                 | 18.67                        | 18.86                    | 18.69                         | 18.79                  | 19.5                |
| 15                        | QPSK       | 75      | 0         | 18.70                        | 18.75                 | 18.72                        | 18.84                    | 18.69                         | 18.67                  |                     |
| 15                        | 16QAM      | 1       | 0         | 19.00                        | 19.00                 | 18.75                        | 18.84                    | 18.91                         | 18.72                  |                     |
| 15                        | 16QAM      | 1       | 37        | 18.94                        | 18.96                 | 18.90                        | 19.08                    | 19.09                         | 18.98                  |                     |
| 15                        | 16QAM      | 1       | 74        | 18.92                        | 18.96                 | 18.73                        | 18.97                    | 18.79                         | 19.00                  |                     |
| 15                        | 16QAM      | 36      | 0         | 18.77                        | 18.78                 | 18.67                        | 18.73                    | 18.69                         | 18.61                  | 19.5                |
| 15                        | 16QAM      | 36      | 20        | 18.74                        | 18.77                 | 18.82                        | 18.90                    | 18.78                         | 18.80                  |                     |
| 15                        | 16QAM      | 36      | 39        | 18.72                        | 18.74                 | 18.74                        | 18.86                    | 18.71                         | 18.80                  |                     |
| 15                        | 16QAM      | 75      | 0         | 18.73                        | 18.77                 | 18.78                        | 18.88                    | 18.76                         | 18.72                  |                     |
| 15                        | 64QAM      | 1       | 0         | 18.88                        | 18.89                 | 18.70                        | 18.69                    | 18.74                         | 18.54                  |                     |
| 15                        | 64QAM      | 1       | 37        | 18.88                        | 18.90                 | 18.97                        | 18.95                    | 18.87                         | 18.83                  | 19.5                |
| 15                        | 64QAM      | 1       | 74        | 18.78                        | 18.83                 | 18.81                        | 18.80                    | 18.58                         | 18.64                  |                     |
| 15                        | 64QAM      | 36      | 0         | 18.79                        | 18.82                 | 18.66                        | 18.77                    | 18.70                         | 18.65                  |                     |
| 15                        | 64QAM      | 36      | 20        | 18.81                        | 18.84                 | 18.83                        | 18.96                    | 18.84                         | 18.84                  |                     |
| 15                        | 64QAM      | 36      | 39        | 18.77                        | 18.80                 | 18.75                        | 18.90                    | 18.71                         | 18.84                  |                     |
| 15                        | 64QAM      | 75      | 0         | 18.73                        | 18.77                 | 18.74                        | 18.88                    | 18.76                         | 18.69                  | 19.5                |
| Channel                   |            |         |           | 39740                        | 39700                 | 40160                        | 40620                    | 41080                         | 41540                  |                     |
| Frequency (MHz)           |            |         |           | 2502.5                       | 2501                  | 2547                         | 2593                     | 2639                          | 2685                   |                     |
| 10                        | QPSK       | 1       | 0         | 18.45                        | 18.49                 | 18.13                        | 18.29                    | 18.11                         | 18.18                  | 19.5                |
| 10                        | QPSK       | 1       | 25        | 18.36                        | 18.38                 | 18.36                        | 18.50                    | 18.39                         | 18.42                  |                     |
| 10                        | QPSK       | 1       | 49        | 18.44                        | 18.46                 | 18.21                        | 18.28                    | 18.19                         | 18.26                  |                     |
| 10                        | QPSK       | 25      | 0         | 18.57                        | 18.60                 | 18.48                        | 18.57                    | 18.48                         | 18.49                  |                     |
| 10                        | QPSK       | 25      | 12        | 18.57                        | 18.58                 | 18.63                        | 18.73                    | 18.55                         | 18.65                  |                     |
| 10                        | QPSK       | 25      | 25        | 18.54                        | 18.55                 | 18.53                        | 18.64                    | 18.50                         | 18.52                  | 19.5                |
| 10                        | QPSK       | 50      | 0         | 18.48                        | 18.51                 | 18.54                        | 18.65                    | 18.47                         | 18.56                  |                     |
| 10                        | 16QAM      | 1       | 0         | 18.82                        | 18.85                 | 18.54                        | 18.61                    | 18.55                         | 18.58                  |                     |
| 10                        | 16QAM      | 1       | 25        | 18.74                        | 18.75                 | 18.80                        | 18.89                    | 18.78                         | 18.76                  |                     |
| 10                        | 16QAM      | 1       | 49        | 18.71                        | 18.76                 | 18.57                        | 18.66                    | 18.53                         | 18.56                  |                     |
| 10                        | 16QAM      | 25      | 0         | 18.61                        | 18.65                 | 18.55                        | 18.60                    | 18.51                         | 18.53                  | 19.5                |
| 10                        | 16QAM      | 25      | 12        | 18.64                        | 18.67                 | 18.75                        | 18.78                    | 18.63                         | 18.73                  |                     |
| 10                        | 16QAM      | 25      | 25        | 18.60                        | 18.60                 | 18.62                        | 18.68                    | 18.56                         | 18.59                  |                     |
| 10                        | 16QAM      | 50      | 0         | 18.57                        | 18.59                 | 18.64                        | 18.70                    | 18.51                         | 18.62                  |                     |
| 10                        | 64QAM      | 1       | 0         | 18.74                        | 18.74                 | 18.56                        | 18.50                    | 18.42                         | 18.44                  |                     |
| 10                        | 64QAM      | 1       | 25        | 18.79                        | 18.77                 | 18.91                        | 18.88                    | 18.82                         | 18.73                  | 19.5                |
| 10                        | 64QAM      | 1       | 49        | 18.70                        | 18.71                 | 18.64                        | 18.56                    | 18.51                         | 18.46                  |                     |
| 10                        | 64QAM      | 25      | 0         | 18.71                        | 18.70                 | 18.80                        | 18.70                    | 18.56                         | 18.57                  |                     |
| 10                        | 64QAM      | 25      | 12        | 18.71                        | 18.73                 | 18.77                        | 18.83                    | 18.64                         | 18.76                  |                     |
| 10                        | 64QAM      | 25      | 25        | 18.64                        | 18.69                 | 18.65                        | 18.71                    | 18.61                         | 18.65                  |                     |
| 10                        | 64QAM      | 50      | 0         | 18.54                        | 18.61                 | 18.63                        | 18.71                    | 18.51                         | 18.61                  | 19.5                |
| Channel                   |            |         |           | 39715                        | 39675                 | 40148                        | 40620                    | 41093                         | 41565                  |                     |
| Frequency (MHz)           |            |         |           | 2502.5                       | 2498.5                | 2545.8                       | 2593                     | 2640.30                       | 2687.5                 |                     |
| 5                         | QPSK       | 1       | 0         | 18.54                        | 18.45                 | 18.12                        | 18.38                    | 18.01                         | 18.27                  | 19.5                |
| 5                         | QPSK       | 1       | 12        | 18.31                        | 18.20                 | 18.20                        | 18.55                    | 18.32                         | 18.37                  |                     |
| 5                         | QPSK       | 1       | 24        | 18.51                        | 18.45                 | 18.25                        | 18.29                    | 18.27                         | 18.33                  |                     |
| 5                         | QPSK       | 12      | 0         | 18.61                        | 18.66                 | 18.45                        | 18.66                    | 18.48                         | 18.45                  |                     |
| 5                         | QPSK       | 12      | 7         | 18.61                        | 18.60                 | 18.56                        | 18.67                    | 18.48                         | 18.56                  |                     |
| 5                         | QPSK       | 12      | 13        | 18.63                        | 18.50                 | 18.54                        | 18.64                    | 18.40                         | 18.50                  | 19.5                |
| 5                         | QPSK       | 25      | 0         | 18.40                        | 18.40                 | 18.52                        | 18.75                    | 18.52                         | 18.65                  |                     |
| 5                         | 16QAM      | 1       | 0         | 18.89                        | 18.84                 | 18.50                        | 18.67                    | 18.55                         | 18.57                  |                     |
| 5                         | 16QAM      | 1       | 12        | 18.84                        | 18.74                 | 18.71                        | 18.92                    | 18.74                         | 18.72                  |                     |
| 5                         | 16QAM      | 1       | 24        | 18.78                        | 18.79                 | 18.56                        | 18.76                    | 18.54                         | 18.54                  |                     |
| 5                         | 16QAM      | 12      | 0         | 18.68                        | 18.74                 | 18.56                        | 18.69                    | 18.52                         | 18.43                  | 19.5                |
| 5                         | 16QAM      | 12      | 7         | 18.58                        | 18.62                 | 18.67                        | 18.73                    | 18.55                         | 18.69                  |                     |
| 5                         | 16QAM      | 12      | 13        | 18.57                        | 18.50                 | 18.62                        | 18.76                    | 18.50                         | 18.61                  |                     |
| 5                         | 16QAM      | 25      | 0         | 18.65                        | 18.65                 | 18.74                        | 18.79                    | 18.43                         | 18.68                  |                     |
| 5                         | 64QAM      | 1       | 0         | 18.81                        | 18.84                 | 18.65                        | 18.44                    | 18.51                         | 18.44                  |                     |
| 5                         | 64QAM      | 1       | 12        | 18.80                        | 18.75                 | 18.93                        | 18.80                    | 18.64                         | 18.78                  | 19.5                |
| 5                         | 64QAM      | 1       | 24        | 18.67                        | 18.66                 | 18.63                        | 18.55                    | 18.61                         | 18.36                  |                     |
| 5                         | 64QAM      | 12      | 0         | 18.81                        | 18.77                 | 18.58                        | 18.64                    | 18.54                         | 18.49                  |                     |
| 5                         | 64QAM      | 12      | 7         | 18.79                        | 18.76                 | 18.67                        | 18.87                    | 18.58                         | 18.81                  |                     |
| 5                         | 64QAM      | 12      | 13        | 18.64                        | 18.60                 | 18.63                        | 18.63                    | 18.64                         | 18.74                  |                     |
| 5                         | 64QAM      | 25      | 0         | 18.53                        | 18.59                 | 18.64                        | 18.81                    | 18.41                         | 18.60                  |                     |

| Band 38_Ant 2   |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 37650                 | 38000                    | 38150                  |                     |
| Frequency (MHz) |            |         |           | 2568                  | 2595                     | 2610                   |                     |
| 20              | QPSK       | 1       | 0         | 18.15                 | 18.14                    | 18.11                  | 19.5                |
| 20              | QPSK       | 1       | 49        | 18.19                 | 18.18                    | 18.12                  |                     |
| 20              | QPSK       | 1       | 99        | 18.19                 | 18.14                    | 18.08                  |                     |
| 20              | QPSK       | 50      | 0         | 18.03                 | 18.02                    | 17.97                  |                     |
| 20              | QPSK       | 50      | 24        | 18.24                 | 18.21                    | 18.08                  |                     |
| 20              | QPSK       | 50      | 50        | 18.15                 | 18.12                    | 18.07                  | 19.5                |
| 20              | QPSK       | 100     | 0         | 18.14                 | 18.11                    | 18.00                  |                     |
| 20              | 16QAM      | 1       | 0         | 18.35                 | 18.34                    | 18.25                  |                     |
| 20              | 16QAM      | 1       | 49        | 18.29                 | 18.22                    | 18.22                  |                     |
| 20              | 16QAM      | 1       | 99        | 18.31                 | 18.27                    | 18.23                  |                     |
| 20              | 16QAM      | 50      | 0         | 18.05                 | 18.07                    | 18.02                  | 19.5                |
| 20              | 16QAM      | 50      | 24        | 18.28                 | 18.27                    | 18.13                  |                     |
| 20              | 16QAM      | 50      | 50        | 18.20                 | 18.18                    | 18.12                  |                     |
| 20              | 16QAM      | 100     | 0         | 18.18                 | 18.14                    | 18.02                  |                     |
| 20              | 64QAM      | 1       | 0         | 18.03                 | 18.10                    | 18.03                  |                     |
| 20              | 64QAM      | 1       | 49        | 18.08                 | 18.03                    | 18.05                  | 19.5                |
| 20              | 64QAM      | 1       | 99        | 18.14                 | 18.07                    | 18.05                  |                     |
| 20              | 64QAM      | 50      | 0         | 18.10                 | 18.07                    | 18.03                  |                     |
| 20              | 64QAM      | 50      | 24        | 18.32                 | 18.28                    | 18.14                  |                     |
| 20              | 64QAM      | 50      | 50        | 18.21                 | 18.18                    | 18.13                  |                     |
| 20              | 64QAM      | 100     | 0         | 18.19                 | 18.15                    | 18.03                  |                     |
| Channel         |            |         |           | 37625                 | 38000                    | 38175                  |                     |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |
| 15              | QPSK       | 1       | 0         | 18.15                 | 18.13                    | 18.08                  | 19.5                |
| 15              | QPSK       | 1       | 37        | 18.15                 | 18.10                    | 17.88                  |                     |
| 15              | QPSK       | 1       | 74        | 18.15                 | 18.13                    | 18.03                  |                     |
| 15              | QPSK       | 36      | 0         | 18.10                 | 18.07                    | 18.01                  |                     |
| 15              | QPSK       | 36      | 20        | 18.27                 | 18.21                    | 18.11                  |                     |
| 15              | QPSK       | 36      | 39        | 18.17                 | 18.15                    | 18.09                  | 19.5                |
| 15              | QPSK       | 75      | 0         | 18.10                 | 18.16                    | 18.01                  |                     |
| 15              | 16QAM      | 1       | 0         | 18.30                 | 18.29                    | 18.21                  |                     |
| 15              | 16QAM      | 1       | 37        | 18.23                 | 18.20                    | 18.19                  |                     |
| 15              | 16QAM      | 1       | 74        | 18.34                 | 18.26                    | 18.20                  |                     |
| 15              | 16QAM      | 36      | 0         | 18.11                 | 18.06                    | 17.96                  | 19.5                |
| 15              | 16QAM      | 36      | 20        | 18.24                 | 18.20                    | 18.04                  |                     |
| 15              | 16QAM      | 36      | 39        | 18.20                 | 18.12                    | 18.09                  |                     |
| 15              | 16QAM      | 75      | 0         | 18.24                 | 18.19                    | 18.04                  |                     |
| 15              | 64QAM      | 1       | 0         | 17.99                 | 18.07                    | 17.95                  |                     |
| 15              | 64QAM      | 1       | 37        | 18.08                 | 18.01                    | 18.04                  | 19.5                |
| 15              | 64QAM      | 1       | 74        | 18.11                 | 17.97                    | 18.00                  |                     |
| 15              | 64QAM      | 36      | 0         | 18.16                 | 18.10                    | 18.05                  |                     |
| 15              | 64QAM      | 36      | 20        | 18.32                 | 18.28                    | 18.15                  |                     |
| 15              | 64QAM      | 36      | 39        | 18.24                 | 18.19                    | 18.15                  |                     |
| 15              | 64QAM      | 75      | 0         | 18.23                 | 18.19                    | 18.08                  |                     |
| Channel         |            |         |           | 37600                 | 38000                    | 38200                  |                     |
| Frequency (MHz) |            |         |           | 2575                  | 2595                     | 2615                   |                     |
| 10              | QPSK       | 1       | 0         | 18.15                 | 18.11                    | 18.08                  | 19.5                |
| 10              | QPSK       | 1       | 25        | 18.10                 | 18.15                    | 17.91                  |                     |
| 10              | QPSK       | 1       | 49        | 18.24                 | 18.22                    | 18.04                  |                     |
| 10              | QPSK       | 25      | 0         | 18.08                 | 17.97                    | 17.95                  |                     |
| 10              | QPSK       | 25      | 12        | 18.29                 | 18.11                    | 18.19                  |                     |
| 10              | QPSK       | 25      | 25        | 18.27                 | 18.23                    | 18.08                  | 19.5                |
| 10              | QPSK       | 50      | 0         | 18.24                 | 18.18                    | 18.10                  |                     |
| 10              | 16QAM      | 1       | 0         | 18.21                 | 18.34                    | 18.23                  |                     |
| 10              | 16QAM      | 1       | 25        | 18.25                 | 18.24                    | 18.12                  |                     |
| 10              | 16QAM      | 1       | 49        | 18.32                 | 18.31                    | 18.27                  |                     |
| 10              | 16QAM      | 25      | 0         | 18.04                 | 18.01                    | 17.99                  | 19.5                |
| 10              | 16QAM      | 25      | 12        | 18.26                 | 18.20                    | 18.08                  |                     |
| 10              | 16QAM      | 25      | 25        | 18.10                 | 18.09                    | 18.03                  |                     |
| 10              | 16QAM      | 50      | 0         | 18.34                 | 18.11                    | 17.96                  |                     |
| 10              | 64QAM      | 1       | 0         | 18.09                 | 18.08                    | 17.99                  |                     |
| 10              | 64QAM      | 1       | 25        | 18.02                 | 17.92                    | 18.11                  | 19.5                |
| 10              | 64QAM      | 1       | 49        | 18.20                 | 17.91                    | 17.98                  |                     |
| 10              | 64QAM      | 25      | 0         | 18.07                 | 18.03                    | 18.00                  |                     |
| 10              | 64QAM      | 25      | 12        | 18.27                 | 18.27                    | 18.08                  |                     |
| 10              | 64QAM      | 25      | 25        | 18.26                 | 18.12                    | 18.12                  |                     |
| 10              | 64QAM      | 50      | 0         | 18.21                 | 18.20                    | 18.09                  |                     |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  |                     |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |
| 5               | QPSK       | 1       | 0         | 18.25                 | 18.03                    | 18.07                  | 19.5                |
| 5               | QPSK       | 1       | 12        | 18.19                 | 18.04                    | 17.92                  |                     |
| 5               | QPSK       | 1       | 24        | 18.09                 | 18.16                    | 17.95                  |                     |
| 5               | QPSK       | 12      | 0         | 18.10                 | 18.06                    | 17.97                  |                     |
| 5               | QPSK       | 12      | 7         | 18.26                 | 18.13                    | 18.06                  |                     |
| 5               | QPSK       | 12      | 13        | 18.16                 | 18.18                    | 18.13                  | 19.5                |
| 5               | QPSK       | 25      | 0         | 18.20                 | 18.06                    | 18.08                  |                     |
| 5               | 16QAM      | 1       | 0         | 18.28                 | 18.21                    | 18.28                  |                     |
| 5               | 16QAM      | 1       | 12        | 18.31                 | 18.28                    | 18.23                  |                     |
| 5               | 16QAM      | 1       | 24        | 18.35                 | 18.24                    | 18.17                  |                     |
| 5               | 16QAM      | 12      | 0         | 18.06                 | 17.96                    | 17.94                  | 19.5                |
| 5               | 16QAM      | 12      | 7         | 18.17                 | 18.17                    | 18.10                  |                     |
| 5               | 16QAM      | 12      | 13        | 18.16                 | 18.06                    | 18.12                  |                     |
| 5               | 16QAM      | 25      | 0         | 18.34                 | 18.14                    | 18.01                  |                     |
| 5               | 64QAM      | 1       | 0         | 18.00                 | 18.02                    | 17.89                  |                     |
| 5               | 64QAM      | 1       | 12        | 18.12                 | 18.08                    | 18.13                  | 19.5                |
| 5               | 64QAM      | 1       | 24        | 18.13                 | 17.96                    | 17.96                  |                     |
| 5               | 64QAM      | 12      | 0         | 18.19                 | 18.14                    | 18.16                  |                     |
| 5               | 64QAM      | 12      | 7         | 18.32                 | 18.23                    | 18.14                  |                     |
| 5               | 64QAM      | 12      | 13        | 18.34                 | 18.20                    | 18.09                  |                     |
| 5               | 64QAM      | 25      | 0         | 18.14                 | 18.23                    | 18.10                  |                     |



| Band 41_Ant 2   |            |         |           |                              |                       |                              |                          |                               |                        |                      |
|-----------------|------------|---------|-----------|------------------------------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|----------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | for IC Power Low Ch. / Freq. | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm)  |
| Channel         |            |         |           | 39790                        | 39790                 | 40185                        | 40620                    | 41055                         | 41490                  |                      |
| Frequency (MHz) |            |         |           | 2510                         | 2508                  | 2549.5                       | 2593                     | 2634.5                        | 2678                   |                      |
| 20              | QPSK       | 1       | 0         | 18.69                        | 18.71                 | 18.65                        | 18.46                    | 18.45                         | 18.32                  | 20                   |
| 20              | QPSK       | 1       | 49        | 18.71                        | 18.73                 | 18.70                        | 18.82                    | 18.78                         | 18.70                  |                      |
| 20              | QPSK       | 1       | 99        | 18.67                        | 18.66                 | 18.70                        | 18.53                    | 18.34                         | 18.63                  | 20                   |
| 20              | QPSK       | 50      | 0         | 18.75                        | 18.77                 | 18.68                        | 18.71                    | 18.67                         | 18.59                  |                      |
| 20              | QPSK       | 50      | 24        | 18.75                        | 18.77                 | 18.80                        | 18.92                    | 18.72                         | 18.75                  | 20                   |
| 20              | QPSK       | 50      | 50        | 18.71                        | 18.72                 | 18.78                        | 18.85                    | 18.65                         | 18.81                  |                      |
| 20              | QPSK       | 100     | 0         | 18.69                        | 18.69                 | 18.68                        | 18.81                    | 18.63                         | 18.66                  | 20                   |
| 20              | 16QAM      | 1       | 0         | 18.89                        | 18.93                 | 18.75                        | 18.60                    | 18.63                         | 18.44                  |                      |
| 20              | 16QAM      | 1       | 49        | 18.79                        | 18.79                 | 18.72                        | 18.94                    | 18.92                         | 18.82                  | 20                   |
| 20              | 16QAM      | 1       | 99        | 18.74                        | 18.77                 | 18.85                        | 18.66                    | 18.51                         | 18.75                  |                      |
| 20              | 16QAM      | 50      | 0         | 18.78                        | 18.81                 | 18.75                        | 18.74                    | 18.71                         | 18.64                  | 20                   |
| 20              | 16QAM      | 50      | 24        | 18.78                        | 18.82                 | 18.86                        | 18.97                    | 18.78                         | 18.78                  |                      |
| 20              | 16QAM      | 50      | 50        | 18.73                        | 18.77                 | 18.85                        | 18.89                    | 18.72                         | 18.83                  | 20                   |
| 20              | 16QAM      | 100     | 0         | 18.69                        | 18.71                 | 18.74                        | 18.85                    | 18.65                         | 18.71                  |                      |
| 20              | 64QAM      | 1       | 0         | 18.67                        | 18.65                 | 18.73                        | 18.29                    | 18.43                         | 18.13                  | 20                   |
| 20              | 64QAM      | 1       | 49        | 18.54                        | 18.57                 | 18.64                        | 18.71                    | 18.65                         | 18.57                  |                      |
| 20              | 64QAM      | 1       | 99        | 18.49                        | 18.53                 | 18.87                        | 18.37                    | 18.29                         | 18.51                  | 20                   |
| 20              | 64QAM      | 50      | 0         | 18.81                        | 18.83                 | 18.74                        | 18.77                    | 18.72                         | 18.64                  |                      |
| 20              | 64QAM      | 50      | 24        | 18.79                        | 18.83                 | 18.83                        | 18.95                    | 18.78                         | 18.80                  | 20                   |
| 20              | 64QAM      | 50      | 50        | 18.76                        | 18.76                 | 18.82                        | 18.90                    | 18.69                         | 18.85                  |                      |
| 20              | 64QAM      | 100     | 0         | 18.73                        | 18.73                 | 18.74                        | 18.86                    | 18.69                         | 18.70                  |                      |
| Channel         |            |         |           | 39785                        | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Limit-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5                       | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                      |
| 15              | QPSK       | 1       | 0         | 18.66                        | 18.72                 | 18.49                        | 18.55                    | 18.50                         | 18.39                  | 20                   |
| 15              | QPSK       | 1       | 37        | 18.61                        | 18.64                 | 18.71                        | 18.78                    | 18.56                         | 18.66                  |                      |
| 15              | QPSK       | 1       | 74        | 18.61                        | 18.65                 | 18.49                        | 18.63                    | 18.38                         | 18.65                  | 20                   |
| 15              | QPSK       | 36      | 0         | 18.74                        | 18.79                 | 18.63                        | 18.74                    | 18.69                         | 18.62                  |                      |
| 15              | QPSK       | 36      | 20        | 18.75                        | 18.80                 | 18.76                        | 18.93                    | 18.82                         | 18.84                  | 20                   |
| 15              | QPSK       | 36      | 39        | 18.71                        | 18.74                 | 18.72                        | 18.86                    | 18.71                         | 18.81                  |                      |
| 15              | QPSK       | 75      | 0         | 18.70                        | 18.75                 | 18.72                        | 18.86                    | 18.73                         | 18.69                  | 20                   |
| 15              | 16QAM      | 1       | 0         | 18.86                        | 18.89                 | 18.54                        | 18.77                    | 18.60                         | 18.62                  |                      |
| 15              | 16QAM      | 1       | 37        | 18.79                        | 18.78                 | 18.65                        | 18.93                    | 18.91                         | 18.85                  | 20                   |
| 15              | 16QAM      | 1       | 74        | 18.78                        | 18.84                 | 18.60                        | 18.82                    | 18.70                         | 18.89                  |                      |
| 15              | 16QAM      | 36      | 0         | 18.73                        | 18.77                 | 18.65                        | 18.72                    | 18.69                         | 18.60                  | 20                   |
| 15              | 16QAM      | 36      | 20        | 18.74                        | 18.77                 | 18.79                        | 18.90                    | 18.79                         | 18.81                  |                      |
| 15              | 16QAM      | 36      | 39        | 18.70                        | 18.73                 | 18.70                        | 18.85                    | 18.72                         | 18.81                  | 20                   |
| 15              | 16QAM      | 75      | 0         | 18.74                        | 18.78                 | 18.77                        | 18.88                    | 18.77                         | 18.73                  |                      |
| 15              | 64QAM      | 1       | 0         | 18.63                        | 18.64                 | 18.49                        | 18.43                    | 18.44                         | 18.32                  | 20                   |
| 15              | 64QAM      | 1       | 37        | 18.58                        | 18.59                 | 18.71                        | 18.73                    | 18.67                         | 18.62                  |                      |
| 15              | 64QAM      | 1       | 74        | 18.55                        | 18.58                 | 18.54                        | 18.58                    | 18.45                         | 18.63                  | 20                   |
| 15              | 64QAM      | 36      | 0         | 18.80                        | 18.83                 | 18.67                        | 18.79                    | 18.73                         | 18.68                  |                      |
| 15              | 64QAM      | 36      | 20        | 18.80                        | 18.83                 | 18.85                        | 18.95                    | 18.85                         | 18.85                  | 20                   |
| 15              | 64QAM      | 36      | 39        | 18.79                        | 18.78                 | 18.74                        | 18.93                    | 18.74                         | 18.84                  |                      |
| 15              | 64QAM      | 75      | 0         | 18.77                        | 18.77                 | 18.77                        | 18.91                    | 18.75                         | 18.72                  |                      |
| Channel         |            |         |           | 39740                        | 39700                 | 40160                        | 40620                    | 41080                         | 41540                  | Limit-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5                       | 2501                  | 2547                         | 2593                     | 2639                          | 2685                   |                      |
| 10              | QPSK       | 1       | 0         | 18.64                        | 18.80                 | 18.44                        | 18.46                    | 18.48                         | 18.34                  | 20                   |
| 10              | QPSK       | 1       | 25        | 18.59                        | 18.61                 | 18.71                        | 18.80                    | 18.59                         | 18.72                  |                      |
| 10              | QPSK       | 1       | 49        | 18.56                        | 18.69                 | 18.41                        | 18.54                    | 18.47                         | 18.56                  | 20                   |
| 10              | QPSK       | 25      | 0         | 18.71                        | 18.69                 | 18.56                        | 18.78                    | 18.75                         | 18.66                  |                      |
| 10              | QPSK       | 25      | 12        | 18.84                        | 18.75                 | 18.72                        | 18.87                    | 18.69                         | 18.81                  | 20                   |
| 10              | QPSK       | 25      | 25        | 18.62                        | 18.67                 | 18.82                        | 18.84                    | 18.81                         | 18.87                  |                      |
| 10              | QPSK       | 50      | 0         | 18.78                        | 18.68                 | 18.62                        | 18.95                    | 18.71                         | 18.66                  | 20                   |
| 10              | 16QAM      | 1       | 0         | 18.76                        | 18.84                 | 18.54                        | 18.77                    | 18.87                         | 18.58                  |                      |
| 10              | 16QAM      | 1       | 25        | 18.80                        | 18.84                 | 18.70                        | 18.95                    | 18.81                         | 18.84                  | 20                   |
| 10              | 16QAM      | 1       | 49        | 18.78                        | 18.78                 | 18.57                        | 18.92                    | 18.67                         | 18.84                  |                      |
| 10              | 16QAM      | 25      | 0         | 18.79                        | 18.77                 | 18.63                        | 18.63                    | 18.69                         | 18.53                  | 20                   |
| 10              | 16QAM      | 25      | 12        | 18.76                        | 18.76                 | 18.71                        | 18.93                    | 18.81                         | 18.78                  |                      |
| 10              | 16QAM      | 25      | 25        | 18.72                        | 18.68                 | 18.76                        | 18.91                    | 18.68                         | 18.74                  | 20                   |
| 10              | 16QAM      | 50      | 0         | 18.80                        | 18.81                 | 18.67                        | 18.81                    | 18.82                         | 18.78                  |                      |
| 10              | 64QAM      | 1       | 0         | 18.70                        | 18.55                 | 18.49                        | 18.48                    | 18.42                         | 18.22                  | 20                   |
| 10              | 64QAM      | 1       | 25        | 18.65                        | 18.55                 | 18.66                        | 18.66                    | 18.75                         | 18.56                  |                      |
| 10              | 64QAM      | 1       | 49        | 18.55                        | 18.46                 | 18.58                        | 18.60                    | 18.51                         | 18.66                  | 20                   |
| 10              | 64QAM      | 25      | 0         | 18.82                        | 18.73                 | 18.65                        | 18.81                    | 18.72                         | 18.58                  |                      |
| 10              | 64QAM      | 25      | 12        | 18.85                        | 18.86                 | 18.76                        | 18.85                    | 18.85                         | 18.94                  | 20                   |
| 10              | 64QAM      | 25      | 25        | 18.82                        | 18.86                 | 18.80                        | 18.87                    | 18.73                         | 18.74                  |                      |
| 10              | 64QAM      | 50      | 0         | 18.72                        | 18.86                 | 18.80                        | 18.90                    | 18.69                         | 18.66                  |                      |
| Channel         |            |         |           | 39715                        | 39675                 | 40148                        | 40620                    | 41093                         | 41565                  | Limit-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5                       | 2498.5                | 2543.8                       | 2593                     | 2640.30                       | 2687.5                 |                      |
| 5               | QPSK       | 1       | 0         | 18.57                        | 18.67                 | 18.56                        | 18.56                    | 18.48                         | 18.41                  | 20                   |
| 5               | QPSK       | 1       | 12        | 18.63                        | 18.56                 | 18.78                        | 18.89                    | 18.65                         | 18.82                  |                      |
| 5               | QPSK       | 1       | 24        | 18.67                        | 18.71                 | 18.42                        | 18.54                    | 18.41                         | 18.56                  | 20                   |
| 5               | QPSK       | 12      | 0         | 18.67                        | 18.75                 | 18.63                        | 18.78                    | 18.74                         | 18.54                  |                      |
| 5               | QPSK       | 12      | 7         | 18.67                        | 18.83                 | 18.73                        | 18.85                    | 18.78                         | 18.91                  | 20                   |
| 5               | QPSK       | 12      | 13        | 18.76                        | 18.67                 | 18.66                        | 18.67                    | 18.79                         | 18.79                  |                      |
| 5               | QPSK       | 25      | 0         | 18.69                        | 18.77                 | 18.62                        | 18.95                    | 18.83                         | 18.73                  | 20                   |
| 5               | 16QAM      | 1       | 0         | 18.82                        | 18.80                 | 18.56                        | 18.80                    | 18.85                         | 18.68                  |                      |
| 5               | 16QAM      | 1       | 12        | 18.79                        | 18.86                 | 18.63                        | 18.95                    | 18.92                         | 18.79                  | 20                   |
| 5               | 16QAM      | 1       | 24        | 18.69                        | 18.94                 | 18.56                        | 18.81                    | 18.63                         | 18.86                  |                      |
| 5               | 16QAM      | 12      | 0         | 18.66                        | 18.73                 | 18.66                        | 18.74                    | 18.72                         | 18.65                  | 20                   |
| 5               | 16QAM      | 12      | 7         | 18.83                        | 18.79                 | 18.82                        | 18.93                    | 18.75                         | 18.72                  |                      |
| 5               | 16QAM      | 12      | 13        | 18.64                        | 18.75                 | 18.65                        | 18.80                    | 18.70                         | 18.72                  | 20                   |
| 5               | 16QAM      | 25      | 0         | 18.64                        | 18.76                 | 18.71                        | 18.86                    | 18.81                         | 18.82                  |                      |
| 5               | 64QAM      | 1       | 0         | 18.56                        | 18.62                 | 18.57                        | 18.47                    | 18.36                         | 18.27                  | 20                   |
| 5               | 64QAM      | 1       | 12        | 18.56                        | 18.63                 | 18.64                        | 18.81                    | 18.71                         | 18.62                  |                      |
| 5               | 64QAM      | 1       | 24        | 18.53                        | 18.59                 | 18.52                        | 18.68                    | 18.50                         | 18.53                  | 20                   |
| 5               | 64QAM      | 12      | 0         | 18.76                        | 18.88                 | 18.73                        | 18.88                    | 18.65                         | 18.65                  |                      |
| 5               | 64QAM      | 12      | 7         | 18.82                        | 18.76                 | 18.93                        | 18.89                    | 18.85                         | 18.80                  | 20                   |
| 5               | 64QAM      | 12      | 13        | 18.88                        | 18.79                 | 18.67                        | 18.90                    | 18.77                         | 18.87                  |                      |
| 5               | 64QAM      | 25      | 0         | 18.86                        | 18.73                 | 18.75                        | 18.84                    | 18.77                         | 18.70                  |                      |

| Band 41_Ant 2   |            |         |           |                              |                       |                              |                          |                               |                        |                     |
|-----------------|------------|---------|-----------|------------------------------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | for IC Power Low Ch. / Freq. | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 39790                        | 39790                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2510                         | 2508                  | 2549.5                       | 2593                     | 2634.5                        | 2670                   |                     |
| 20              | QPSK       | 1       | 0         | 18.60                        | 18.61                 | 18.50                        | 18.39                    | 18.28                         | 18.21                  | 20                  |
| 20              | QPSK       | 1       | 49        | 18.56                        | 18.62                 | 18.57                        | 18.73                    | 18.63                         | 18.61                  |                     |
| 20              | QPSK       | 1       | 99        | 18.55                        | 18.61                 | 18.60                        | 18.43                    | 18.21                         | 18.53                  |                     |
| 20              | QPSK       | 50      | 0         | 18.77                        | 18.79                 | 18.68                        | 18.71                    | 18.68                         | 18.60                  |                     |
| 20              | QPSK       | 50      | 24        | 18.76                        | 18.77                 | 18.78                        | 18.53                    | 18.74                         | 18.75                  |                     |
| 20              | QPSK       | 50      | 50        | 18.73                        | 18.74                 | 18.76                        | 18.45                    | 18.68                         | 18.62                  | 20                  |
| 20              | QPSK       | 100     | 0         | 18.69                        | 18.70                 | 18.68                        | 18.81                    | 18.64                         | 18.66                  |                     |
| 20              | 16QAM      | 1       | 0         | 19.03                        | 19.06                 | 18.89                        | 18.70                    | 18.93                         | 18.57                  |                     |
| 20              | 16QAM      | 1       | 49        | 18.94                        | 19.00                 | 18.95                        | 19.10                    | 19.07                         | 19.01                  |                     |
| 20              | 16QAM      | 1       | 99        | 18.93                        | 18.90                 | 18.98                        | 18.75                    | 18.65                         | 18.91                  |                     |
| 20              | 16QAM      | 50      | 0         | 18.90                        | 18.94                 | 18.75                        | 18.79                    | 18.72                         | 18.64                  | 20                  |
| 20              | 16QAM      | 50      | 24        | 18.82                        | 18.82                 | 18.88                        | 18.96                    | 18.78                         | 18.79                  |                     |
| 20              | 16QAM      | 50      | 50        | 18.78                        | 18.78                 | 18.87                        | 18.88                    | 18.73                         | 18.86                  |                     |
| 20              | 16QAM      | 100     | 0         | 18.73                        | 18.74                 | 18.75                        | 18.84                    | 18.66                         | 18.72                  |                     |
| 20              | 64QAM      | 1       | 0         | 18.91                        | 18.92                 | 18.93                        | 18.53                    | 18.70                         | 18.40                  |                     |
| 20              | 64QAM      | 1       | 49        | 18.90                        | 18.95                 | 18.85                        | 18.98                    | 18.88                         | 18.93                  | 20                  |
| 20              | 64QAM      | 1       | 99        | 18.77                        | 18.81                 | 19.08                        | 18.64                    | 18.49                         | 18.79                  |                     |
| 20              | 64QAM      | 50      | 0         | 18.81                        | 18.85                 | 18.75                        | 18.77                    | 18.71                         | 18.64                  |                     |
| 20              | 64QAM      | 50      | 24        | 18.82                        | 18.84                 | 18.87                        | 18.97                    | 18.76                         | 18.80                  |                     |
| 20              | 64QAM      | 50      | 50        | 18.78                        | 18.78                 | 18.84                        | 18.90                    | 18.69                         | 18.86                  |                     |
| 20              | 64QAM      | 100     | 0         | 18.73                        | 18.78                 | 18.75                        | 18.86                    | 18.70                         | 18.70                  |                     |
| Channel         |            |         |           | 39785                        | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  |                     |
| Frequency (MHz) |            |         |           | 2507.5                       | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 18.63                        | 18.67                 | 18.44                        | 18.53                    | 18.45                         | 18.35                  | 20                  |
| 15              | QPSK       | 1       | 37        | 18.58                        | 18.61                 | 18.65                        | 18.70                    | 18.59                         | 18.61                  |                     |
| 15              | QPSK       | 1       | 74        | 18.59                        | 18.61                 | 18.43                        | 18.64                    | 18.23                         | 18.61                  |                     |
| 15              | QPSK       | 36      | 0         | 18.75                        | 18.79                 | 18.63                        | 18.73                    | 18.68                         | 18.61                  |                     |
| 15              | QPSK       | 36      | 20        | 18.75                        | 18.76                 | 18.77                        | 18.92                    | 18.80                         | 18.80                  |                     |
| 15              | QPSK       | 36      | 39        | 18.73                        | 18.73                 | 18.67                        | 18.86                    | 18.69                         | 18.79                  | 20                  |
| 15              | QPSK       | 75      | 0         | 18.70                        | 18.75                 | 18.72                        | 18.84                    | 18.69                         | 18.67                  |                     |
| 15              | 16QAM      | 1       | 0         | 19.00                        | 19.00                 | 18.75                        | 18.84                    | 18.91                         | 18.72                  |                     |
| 15              | 16QAM      | 1       | 37        | 18.94                        | 18.96                 | 18.90                        | 19.08                    | 19.09                         | 18.98                  |                     |
| 15              | 16QAM      | 1       | 74        | 18.92                        | 18.96                 | 18.73                        | 18.97                    | 18.79                         | 19.00                  |                     |
| 15              | 16QAM      | 36      | 0         | 18.77                        | 18.78                 | 18.67                        | 18.73                    | 18.69                         | 18.61                  | 20                  |
| 15              | 16QAM      | 36      | 20        | 18.74                        | 18.77                 | 18.82                        | 18.90                    | 18.78                         | 18.80                  |                     |
| 15              | 16QAM      | 36      | 39        | 18.72                        | 18.74                 | 18.74                        | 18.86                    | 18.71                         | 18.80                  |                     |
| 15              | 16QAM      | 75      | 0         | 18.73                        | 18.77                 | 18.78                        | 18.88                    | 18.76                         | 18.72                  |                     |
| 15              | 64QAM      | 1       | 0         | 18.88                        | 18.89                 | 18.70                        | 18.69                    | 18.74                         | 18.54                  |                     |
| 15              | 64QAM      | 1       | 37        | 18.88                        | 18.90                 | 18.97                        | 18.95                    | 18.87                         | 18.83                  | 20                  |
| 15              | 64QAM      | 1       | 74        | 18.78                        | 18.83                 | 18.81                        | 18.80                    | 18.68                         | 18.64                  |                     |
| 15              | 64QAM      | 36      | 0         | 18.79                        | 18.82                 | 18.66                        | 18.77                    | 18.70                         | 18.65                  |                     |
| 15              | 64QAM      | 36      | 20        | 18.81                        | 18.84                 | 18.83                        | 18.96                    | 18.84                         | 18.84                  |                     |
| 15              | 64QAM      | 36      | 39        | 18.77                        | 18.80                 | 18.75                        | 18.90                    | 18.71                         | 18.84                  |                     |
| 15              | 64QAM      | 75      | 0         | 18.73                        | 18.77                 | 18.74                        | 18.88                    | 18.76                         | 18.69                  |                     |
| Channel         |            |         |           | 39740                        | 39700                 | 40160                        | 40620                    | 41080                         | 41540                  |                     |
| Frequency (MHz) |            |         |           | 2502.5                       | 2501                  | 2547                         | 2593                     | 2639                          | 2685                   |                     |
| 10              | QPSK       | 1       | 0         | 18.45                        | 18.49                 | 18.13                        | 18.29                    | 18.11                         | 18.18                  | 20                  |
| 10              | QPSK       | 1       | 25        | 18.36                        | 18.38                 | 18.36                        | 18.50                    | 18.39                         | 18.42                  |                     |
| 10              | QPSK       | 1       | 49        | 18.44                        | 18.46                 | 18.21                        | 18.28                    | 18.19                         | 18.26                  |                     |
| 10              | QPSK       | 25      | 0         | 18.57                        | 18.60                 | 18.48                        | 18.57                    | 18.48                         | 18.49                  |                     |
| 10              | QPSK       | 25      | 12        | 18.57                        | 18.58                 | 18.63                        | 18.73                    | 18.55                         | 18.65                  |                     |
| 10              | QPSK       | 25      | 25        | 18.54                        | 18.55                 | 18.53                        | 18.64                    | 18.50                         | 18.52                  | 20                  |
| 10              | QPSK       | 50      | 0         | 18.48                        | 18.51                 | 18.54                        | 18.65                    | 18.47                         | 18.56                  |                     |
| 10              | 16QAM      | 1       | 0         | 18.82                        | 18.85                 | 18.54                        | 18.61                    | 18.55                         | 18.58                  |                     |
| 10              | 16QAM      | 1       | 25        | 18.74                        | 18.75                 | 18.80                        | 18.89                    | 18.78                         | 18.76                  |                     |
| 10              | 16QAM      | 1       | 49        | 18.71                        | 18.76                 | 18.57                        | 18.66                    | 18.53                         | 18.56                  |                     |
| 10              | 16QAM      | 25      | 0         | 18.61                        | 18.65                 | 18.55                        | 18.60                    | 18.51                         | 18.53                  | 20                  |
| 10              | 16QAM      | 25      | 12        | 18.64                        | 18.67                 | 18.75                        | 18.78                    | 18.63                         | 18.73                  |                     |
| 10              | 16QAM      | 25      | 25        | 18.60                        | 18.60                 | 18.62                        | 18.68                    | 18.56                         | 18.59                  |                     |
| 10              | 16QAM      | 50      | 0         | 18.57                        | 18.59                 | 18.64                        | 18.70                    | 18.51                         | 18.62                  |                     |
| 10              | 64QAM      | 1       | 0         | 18.74                        | 18.74                 | 18.56                        | 18.50                    | 18.42                         | 18.44                  |                     |
| 10              | 64QAM      | 1       | 25        | 18.79                        | 18.77                 | 18.91                        | 18.88                    | 18.82                         | 18.73                  | 20                  |
| 10              | 64QAM      | 1       | 49        | 18.70                        | 18.71                 | 18.64                        | 18.56                    | 18.51                         | 18.46                  |                     |
| 10              | 64QAM      | 25      | 0         | 18.71                        | 18.70                 | 18.80                        | 18.70                    | 18.56                         | 18.57                  |                     |
| 10              | 64QAM      | 25      | 12        | 18.71                        | 18.73                 | 18.77                        | 18.83                    | 18.64                         | 18.76                  |                     |
| 10              | 64QAM      | 25      | 25        | 18.64                        | 18.69                 | 18.65                        | 18.71                    | 18.61                         | 18.65                  |                     |
| 10              | 64QAM      | 50      | 0         | 18.54                        | 18.61                 | 18.63                        | 18.71                    | 18.51                         | 18.61                  |                     |
| Channel         |            |         |           | 39715                        | 39675                 | 40148                        | 40620                    | 41093                         | 41565                  |                     |
| Frequency (MHz) |            |         |           | 2502.5                       | 2498.5                | 2545.8                       | 2593                     | 2640.30                       | 2687.5                 |                     |
| 5               | QPSK       | 1       | 0         | 18.54                        | 18.45                 | 18.12                        | 18.38                    | 18.01                         | 18.27                  | 20                  |
| 5               | QPSK       | 1       | 12        | 18.31                        | 18.20                 | 18.26                        | 18.55                    | 18.32                         | 18.37                  |                     |
| 5               | QPSK       | 1       | 24        | 18.51                        | 18.45                 | 18.25                        | 18.29                    | 18.27                         | 18.33                  |                     |
| 5               | QPSK       | 12      | 0         | 18.61                        | 18.66                 | 18.45                        | 18.66                    | 18.48                         | 18.45                  |                     |
| 5               | QPSK       | 12      | 7         | 18.61                        | 18.60                 | 18.56                        | 18.67                    | 18.48                         | 18.56                  |                     |
| 5               | QPSK       | 12      | 13        | 18.63                        | 18.50                 | 18.54                        | 18.64                    | 18.40                         | 18.50                  | 20                  |
| 5               | QPSK       | 25      | 0         | 18.40                        | 18.40                 | 18.52                        | 18.75                    | 18.52                         | 18.65                  |                     |
| 5               | 16QAM      | 1       | 0         | 18.89                        | 18.84                 | 18.50                        | 18.67                    | 18.55                         | 18.57                  |                     |
| 5               | 16QAM      | 1       | 12        | 18.84                        | 18.74                 | 18.71                        | 18.92                    | 18.74                         | 18.72                  |                     |
| 5               | 16QAM      | 1       | 24        | 18.78                        | 18.79                 | 18.56                        | 18.76                    | 18.54                         | 18.54                  |                     |
| 5               | 16QAM      | 12      | 0         | 18.68                        | 18.74                 | 18.56                        | 18.69                    | 18.52                         | 18.43                  | 20                  |
| 5               | 16QAM      | 12      | 7         | 18.58                        | 18.62                 | 18.67                        | 18.73                    | 18.55                         | 18.69                  |                     |
| 5               | 16QAM      | 12      | 13        | 18.57                        | 18.50                 | 18.62                        | 18.76                    | 18.50                         | 18.61                  |                     |
| 5               | 16QAM      | 25      | 0         | 18.65                        | 18.65                 | 18.74                        | 18.79                    | 18.43                         | 18.68                  |                     |
| 5               | 64QAM      | 1       | 0         | 18.81                        | 18.84                 | 18.65                        | 18.44                    | 18.51                         | 18.44                  |                     |
| 5               | 64QAM      | 1       | 12        | 18.80                        | 18.75                 | 18.83                        | 18.80                    | 18.64                         | 18.78                  | 20                  |
| 5               | 64QAM      | 1       | 24        | 18.67                        | 18.66                 | 18.63                        | 18.55                    | 18.61                         | 18.36                  |                     |
| 5               | 64QAM      | 12      | 0         | 18.81                        | 18.77                 | 18.58                        | 18.64                    | 18.54                         | 18.49                  |                     |
| 5               | 64QAM      | 12      | 7         | 18.79                        | 18.76                 | 18.67                        | 18.87                    | 18.58                         | 18.81                  |                     |
| 5               | 64QAM      | 12      | 13        | 18.64                        | 18.60                 | 18.63                        | 18.63                    | 18.64                         | 18.74                  |                     |
| 5               | 64QAM      | 25      | 0         | 18.53                        | 18.59                 | 18.64                        | 18.81                    | 18.41                         | 18.60                  |                     |



| Band 38_Ant 0   |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 37650                 | 38000                    | 38150                  |                     |
| Frequency (MHz) |            |         |           | 2568                  | 2595                     | 2610                   |                     |
| 20              | QPSK       | 1       | 0         | 19.22                 | 19.20                    | 19.15                  | 20.5                |
| 20              | QPSK       | 1       | 49        | 19.28                 | 19.23                    | 19.16                  |                     |
| 20              | QPSK       | 1       | 99        | 19.27                 | 19.20                    | 19.14                  |                     |
| 20              | QPSK       | 50      | 0         | 19.13                 | 19.08                    | 19.02                  |                     |
| 20              | QPSK       | 50      | 24        | 19.32                 | 19.25                    | 19.14                  |                     |
| 20              | QPSK       | 50      | 50        | 19.22                 | 19.20                    | 19.12                  | 20.5                |
| 20              | QPSK       | 100     | 0         | 19.20                 | 19.17                    | 19.03                  |                     |
| 20              | 16QAM      | 1       | 0         | 19.38                 | 19.36                    | 19.28                  |                     |
| 20              | 16QAM      | 1       | 49        | 19.40                 | 19.35                    | 19.30                  |                     |
| 20              | 16QAM      | 1       | 99        | 19.30                 | 19.36                    | 19.32                  |                     |
| 20              | 16QAM      | 50      | 0         | 19.16                 | 19.13                    | 19.05                  | 20.5                |
| 20              | 16QAM      | 50      | 24        | 19.34                 | 19.32                    | 19.18                  |                     |
| 20              | 16QAM      | 50      | 50        | 19.27                 | 19.20                    | 19.15                  |                     |
| 20              | 16QAM      | 100     | 0         | 19.23                 | 19.20                    | 19.06                  |                     |
| 20              | 64QAM      | 1       | 0         | 19.11                 | 19.04                    | 19.00                  |                     |
| 20              | 64QAM      | 1       | 49        | 19.15                 | 19.08                    | 19.03                  | 20.5                |
| 20              | 64QAM      | 1       | 99        | 19.21                 | 19.11                    | 19.08                  |                     |
| 20              | 64QAM      | 50      | 0         | 19.14                 | 19.11                    | 19.04                  |                     |
| 20              | 64QAM      | 50      | 24        | 19.34                 | 19.29                    | 19.16                  |                     |
| 20              | 64QAM      | 50      | 50        | 19.25                 | 19.20                    | 19.15                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.21                 | 19.18                    | 19.04                  |                     |
| Channel         |            |         |           | 37625                 | 38000                    | 38175                  |                     |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |
| 15              | QPSK       | 1       | 0         | 19.19                 | 19.19                    | 19.08                  | 20.5                |
| 15              | QPSK       | 1       | 37        | 19.20                 | 19.17                    | 19.10                  |                     |
| 15              | QPSK       | 1       | 74        | 19.20                 | 19.20                    | 19.11                  |                     |
| 15              | QPSK       | 36      | 0         | 19.17                 | 19.14                    | 19.06                  |                     |
| 15              | QPSK       | 36      | 20        | 19.34                 | 19.28                    | 19.14                  |                     |
| 15              | QPSK       | 36      | 39        | 19.26                 | 19.21                    | 19.16                  | 20.5                |
| 15              | QPSK       | 75      | 0         | 19.27                 | 19.20                    | 19.07                  |                     |
| 15              | 16QAM      | 1       | 0         | 19.36                 | 19.34                    | 19.26                  |                     |
| 15              | 16QAM      | 1       | 37        | 19.27                 | 19.30                    | 19.23                  |                     |
| 15              | 16QAM      | 1       | 74        | 19.30                 | 19.35                    | 19.29                  |                     |
| 15              | 16QAM      | 36      | 0         | 19.12                 | 19.10                    | 19.02                  | 20.5                |
| 15              | 16QAM      | 36      | 20        | 19.31                 | 19.26                    | 19.12                  |                     |
| 15              | 16QAM      | 36      | 39        | 19.25                 | 19.20                    | 19.13                  |                     |
| 15              | 16QAM      | 75      | 0         | 19.29                 | 19.25                    | 19.09                  |                     |
| 15              | 64QAM      | 1       | 0         | 19.02                 | 19.02                    | 18.96                  |                     |
| 15              | 64QAM      | 1       | 37        | 19.12                 | 19.07                    | 19.05                  | 20.5                |
| 15              | 64QAM      | 1       | 74        | 19.17                 | 19.10                    | 19.05                  |                     |
| 15              | 64QAM      | 36      | 0         | 19.18                 | 19.10                    | 19.09                  |                     |
| 15              | 64QAM      | 36      | 20        | 19.35                 | 19.31                    | 19.17                  |                     |
| 15              | 64QAM      | 36      | 39        | 19.28                 | 19.24                    | 19.16                  |                     |
| 15              | 64QAM      | 75      | 0         | 19.27                 | 19.23                    | 19.09                  |                     |
| Channel         |            |         |           | 37600                 | 38000                    | 38200                  |                     |
| Frequency (MHz) |            |         |           | 2575                  | 2595                     | 2615                   |                     |
| 10              | QPSK       | 1       | 0         | 18.57                 | 18.83                    | 18.76                  | 20.5                |
| 10              | QPSK       | 1       | 25        | 18.91                 | 18.85                    | 18.78                  |                     |
| 10              | QPSK       | 1       | 49        | 18.75                 | 18.97                    | 18.89                  |                     |
| 10              | QPSK       | 25      | 0         | 18.93                 | 18.90                    | 18.82                  |                     |
| 10              | QPSK       | 25      | 12        | 19.12                 | 19.06                    | 18.92                  |                     |
| 10              | QPSK       | 25      | 25        | 19.03                 | 19.01                    | 18.92                  | 20.5                |
| 10              | QPSK       | 50      | 0         | 19.05                 | 19.00                    | 18.85                  |                     |
| 10              | 16QAM      | 1       | 0         | 19.01                 | 19.28                    | 19.19                  |                     |
| 10              | 16QAM      | 1       | 25        | 19.30                 | 19.25                    | 19.13                  |                     |
| 10              | 16QAM      | 1       | 49        | 18.99                 | 19.27                    | 19.19                  |                     |
| 10              | 16QAM      | 25      | 0         | 18.95                 | 18.92                    | 18.83                  | 20.5                |
| 10              | 16QAM      | 25      | 12        | 19.15                 | 19.09                    | 18.98                  |                     |
| 10              | 16QAM      | 25      | 25        | 19.06                 | 19.02                    | 18.94                  |                     |
| 10              | 16QAM      | 50      | 0         | 19.08                 | 19.05                    | 18.88                  |                     |
| 10              | 64QAM      | 1       | 0         | 18.83                 | 19.16                    | 19.04                  |                     |
| 10              | 64QAM      | 1       | 25        | 19.33                 | 19.21                    | 19.18                  | 20.5                |
| 10              | 64QAM      | 1       | 49        | 18.96                 | 19.20                    | 19.10                  |                     |
| 10              | 64QAM      | 25      | 0         | 19.03                 | 18.98                    | 18.85                  |                     |
| 10              | 64QAM      | 25      | 12        | 19.19                 | 19.22                    | 19.05                  |                     |
| 10              | 64QAM      | 25      | 25        | 19.12                 | 19.11                    | 19.02                  |                     |
| 10              | 64QAM      | 50      | 0         | 19.03                 | 19.04                    | 18.90                  |                     |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  |                     |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |
| 5               | QPSK       | 1       | 0         | 18.85                 | 18.86                    | 18.73                  | 20.5                |
| 5               | QPSK       | 1       | 12        | 18.92                 | 18.93                    | 18.86                  |                     |
| 5               | QPSK       | 1       | 24        | 18.93                 | 18.84                    | 18.76                  |                     |
| 5               | QPSK       | 12      | 0         | 19.03                 | 18.98                    | 18.92                  |                     |
| 5               | QPSK       | 12      | 7         | 19.10                 | 19.10                    | 19.05                  |                     |
| 5               | QPSK       | 12      | 13        | 19.08                 | 19.07                    | 19.01                  | 20.5                |
| 5               | QPSK       | 25      | 0         | 19.07                 | 19.02                    | 18.98                  |                     |
| 5               | 16QAM      | 1       | 0         | 19.12                 | 19.10                    | 19.01                  |                     |
| 5               | 16QAM      | 1       | 12        | 19.16                 | 19.19                    | 19.14                  |                     |
| 5               | 16QAM      | 1       | 24        | 19.20                 | 19.22                    | 19.15                  |                     |
| 5               | 16QAM      | 12      | 0         | 19.09                 | 18.99                    | 18.96                  | 20.5                |
| 5               | 16QAM      | 12      | 7         | 19.15                 | 19.13                    | 19.07                  |                     |
| 5               | 16QAM      | 12      | 13        | 19.13                 | 19.10                    | 19.02                  |                     |
| 5               | 16QAM      | 25      | 0         | 19.15                 | 19.10                    | 19.01                  |                     |
| 5               | 64QAM      | 1       | 0         | 19.02                 | 19.02                    | 18.94                  |                     |
| 5               | 64QAM      | 1       | 12        | 19.14                 | 19.15                    | 19.07                  | 20.5                |
| 5               | 64QAM      | 1       | 24        | 19.12                 | 19.15                    | 19.09                  |                     |
| 5               | 64QAM      | 12      | 0         | 19.12                 | 19.09                    | 18.99                  |                     |
| 5               | 64QAM      | 12      | 7         | 19.19                 | 19.20                    | 19.09                  |                     |
| 5               | 64QAM      | 12      | 13        | 19.13                 | 19.14                    | 19.07                  |                     |
| 5               | 64QAM      | 25      | 0         | 19.12                 | 19.14                    | 19.06                  |                     |





| Band 41_Ant 0   |            |         |           |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2500                | 2543.5                     | 2587                   | 2630.5                      | 2674                 |                     |
| 20              | QPSK       | 1       | 0         | 19.85               | 19.72                      | 19.43                  | 19.48                       | 19.38                | 20.5                |
| 20              | QPSK       | 1       | 49        | 19.88               | 19.88                      | 19.86                  | 19.78                       | 19.80                |                     |
| 20              | QPSK       | 1       | 99        | 19.78               | 19.83                      | 19.58                  | 19.38                       | 19.70                |                     |
| 20              | QPSK       | 50      | 0         | 19.90               | 19.78                      | 19.75                  | 19.83                       | 19.87                |                     |
| 20              | QPSK       | 50      | 24        | 19.90               | 19.87                      | 19.95                  | 19.78                       | 19.81                |                     |
| 20              | QPSK       | 50      | 50        | 19.87               | 19.87                      | 19.80                  | 19.72                       | 19.89                | 20.5                |
| 20              | QPSK       | 100     | 0         | 19.82               | 19.79                      | 19.86                  | 19.68                       | 19.74                |                     |
| 20              | 16QAM      | 1       | 0         | 20.04               | 20.00                      | 19.59                  | 19.64                       | 19.43                |                     |
| 20              | 16QAM      | 1       | 49        | 19.91               | 19.89                      | 19.99                  | 19.86                       | 19.88                |                     |
| 20              | 16QAM      | 1       | 99        | 19.83               | 19.95                      | 19.70                  | 19.47                       | 19.85                |                     |
| 20              | 16QAM      | 50      | 0         | 19.93               | 19.85                      | 19.75                  | 19.76                       | 19.68                | 20.5                |
| 20              | 16QAM      | 50      | 24        | 19.95               | 19.92                      | 19.98                  | 19.83                       | 19.83                |                     |
| 20              | 16QAM      | 50      | 50        | 19.89               | 19.90                      | 19.92                  | 19.75                       | 19.91                |                     |
| 20              | 16QAM      | 100     | 0         | 19.86               | 19.81                      | 19.88                  | 19.70                       | 19.75                |                     |
| 20              | 64QAM      | 1       | 0         | 19.80               | 19.73                      | 19.29                  | 19.36                       | 19.21                |                     |
| 20              | 64QAM      | 1       | 49        | 19.70               | 19.62                      | 19.74                  | 19.66                       | 19.68                | 20.5                |
| 20              | 64QAM      | 1       | 99        | 19.73               | 19.73                      | 19.48                  | 19.27                       | 19.62                |                     |
| 20              | 64QAM      | 50      | 0         | 19.84               | 19.80                      | 19.78                  | 19.77                       | 19.68                |                     |
| 20              | 64QAM      | 50      | 24        | 19.92               | 19.92                      | 19.96                  | 19.84                       | 19.85                |                     |
| 20              | 64QAM      | 50      | 50        | 19.81               | 19.89                      | 19.90                  | 19.77                       | 19.93                |                     |
| 20              | 64QAM      | 100     | 0         | 19.87               | 19.79                      | 19.87                  | 19.75                       | 19.76                | Tune-up limit (dBm) |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41519                |                     |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |
| 15              | QPSK       | 1       | 0         | 19.87               | 19.52                      | 19.62                  | 19.57                       | 19.46                | 20.5                |
| 15              | QPSK       | 1       | 37        | 19.82               | 19.74                      | 19.80                  | 19.70                       | 19.75                |                     |
| 15              | QPSK       | 1       | 74        | 19.79               | 19.53                      | 19.70                  | 19.53                       | 19.74                |                     |
| 15              | QPSK       | 36      | 0         | 19.93               | 19.74                      | 19.79                  | 19.75                       | 19.68                |                     |
| 15              | QPSK       | 36      | 20        | 19.91               | 19.88                      | 19.94                  | 19.86                       | 19.89                |                     |
| 15              | QPSK       | 36      | 39        | 19.90               | 19.80                      | 19.91                  | 19.77                       | 19.88                | 20.5                |
| 15              | QPSK       | 75      | 0         | 19.87               | 19.82                      | 19.92                  | 19.79                       | 19.75                |                     |
| 15              | 16QAM      | 1       | 0         | 20.03               | 19.78                      | 19.75                  | 19.77                       | 19.62                |                     |
| 15              | 16QAM      | 1       | 37        | 19.93               | 19.90                      | 19.94                  | 19.90                       | 19.91                |                     |
| 15              | 16QAM      | 1       | 74        | 19.93               | 19.78                      | 19.89                  | 19.70                       | 19.93                |                     |
| 15              | 16QAM      | 36      | 0         | 19.92               | 19.71                      | 19.76                  | 19.73                       | 19.67                | 20.5                |
| 15              | 16QAM      | 36      | 20        | 19.90               | 19.87                      | 19.94                  | 19.84                       | 19.88                |                     |
| 15              | 16QAM      | 36      | 39        | 19.87               | 19.80                      | 19.91                  | 19.78                       | 19.88                |                     |
| 15              | 16QAM      | 75      | 0         | 19.92               | 19.86                      | 19.93                  | 19.85                       | 19.78                |                     |
| 15              | 64QAM      | 1       | 0         | 19.76               | 19.52                      | 19.44                  | 19.54                       | 19.39                |                     |
| 15              | 64QAM      | 1       | 37        | 19.71               | 19.69                      | 19.73                  | 19.70                       | 19.71                | 20.5                |
| 15              | 64QAM      | 1       | 74        | 19.73               | 19.52                      | 19.61                  | 19.49                       | 19.69                |                     |
| 15              | 64QAM      | 36      | 0         | 19.94               | 19.75                      | 19.80                  | 19.78                       | 19.74                |                     |
| 15              | 64QAM      | 36      | 20        | 19.94               | 19.89                      | 19.98                  | 19.91                       | 19.93                |                     |
| 15              | 64QAM      | 36      | 39        | 19.91               | 19.79                      | 19.92                  | 19.80                       | 19.91                |                     |
| 15              | 64QAM      | 75      | 0         | 19.91               | 19.84                      | 19.91                  | 19.84                       | 19.78                | Tune-up limit (dBm) |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |
| 10              | QPSK       | 1       | 0         | 19.56               | 19.38                      | 19.31                  | 19.22                       | 19.27                | 20.5                |
| 10              | QPSK       | 1       | 25        | 19.62               | 19.54                      | 19.57                  | 19.48                       | 19.52                |                     |
| 10              | QPSK       | 1       | 49        | 19.58               | 19.34                      | 19.38                  | 19.33                       | 19.35                |                     |
| 10              | QPSK       | 25      | 0         | 19.73               | 19.60                      | 19.63                  | 19.52                       | 19.58                |                     |
| 10              | QPSK       | 25      | 12        | 19.79               | 19.73                      | 19.79                  | 19.63                       | 19.73                |                     |
| 10              | QPSK       | 25      | 25        | 19.74               | 19.64                      | 19.70                  | 19.60                       | 19.63                | 20.5                |
| 10              | QPSK       | 50      | 0         | 19.70               | 19.67                      | 19.69                  | 19.55                       | 19.67                |                     |
| 10              | 16QAM      | 1       | 0         | 19.96               | 19.70                      | 19.65                  | 19.56                       | 19.63                |                     |
| 10              | 16QAM      | 1       | 25        | 19.90               | 19.95                      | 19.93                  | 19.84                       | 19.82                |                     |
| 10              | 16QAM      | 1       | 49        | 19.90               | 19.96                      | 19.98                  | 19.81                       | 19.81                |                     |
| 10              | 16QAM      | 25      | 0         | 19.81               | 19.63                      | 19.65                  | 19.55                       | 19.61                | 20.5                |
| 10              | 16QAM      | 25      | 12        | 19.83               | 19.81                      | 19.82                  | 19.67                       | 19.78                |                     |
| 10              | 16QAM      | 25      | 25        | 19.76               | 19.69                      | 19.72                  | 19.61                       | 19.64                |                     |
| 10              | 16QAM      | 50      | 0         | 19.75               | 19.72                      | 19.72                  | 19.58                       | 19.67                |                     |
| 10              | 64QAM      | 1       | 0         | 19.93               | 19.53                      | 19.53                  | 19.50                       | 19.52                |                     |
| 10              | 64QAM      | 1       | 25        | 19.83               | 19.97                      | 19.90                  | 19.82                       | 19.84                | 20.5                |
| 10              | 64QAM      | 1       | 49        | 19.83               | 19.56                      | 19.63                  | 19.55                       | 19.55                |                     |
| 10              | 64QAM      | 25      | 0         | 19.83               | 19.67                      | 19.73                  | 19.64                       | 19.66                |                     |
| 10              | 64QAM      | 25      | 12        | 19.86               | 19.84                      | 19.86                  | 19.73                       | 19.84                |                     |
| 10              | 64QAM      | 25      | 25        | 19.81               | 19.72                      | 19.78                  | 19.69                       | 19.71                |                     |
| 10              | 64QAM      | 50      | 0         | 19.72               | 19.70                      | 19.76                  | 19.57                       | 19.68                | Tune-up limit (dBm) |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41093                       | 41565                |                     |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.39                     | 2687.5               |                     |
| 5               | QPSK       | 1       | 0         | 19.86               | 19.54                      | 19.52                  | 19.45                       | 19.57                | 20.5                |
| 5               | QPSK       | 1       | 12        | 19.59               | 19.54                      | 19.63                  | 19.54                       | 19.61                |                     |
| 5               | QPSK       | 1       | 24        | 19.56               | 19.57                      | 19.57                  | 19.52                       | 19.52                |                     |
| 5               | QPSK       | 12      | 0         | 19.76               | 19.69                      | 19.70                  | 19.64                       | 19.71                |                     |
| 5               | QPSK       | 12      | 7         | 19.78               | 19.77                      | 19.78                  | 19.64                       | 19.74                |                     |
| 5               | QPSK       | 12      | 13        | 19.76               | 19.75                      | 19.79                  | 19.67                       | 19.68                | 20.5                |
| 5               | QPSK       | 25      | 0         | 19.75               | 19.71                      | 19.77                  | 19.58                       | 19.70                |                     |
| 5               | 16QAM      | 1       | 0         | 19.94               | 19.73                      | 19.84                  | 19.67                       | 19.82                |                     |
| 5               | 16QAM      | 1       | 12        | 19.91               | 19.78                      | 19.89                  | 19.71                       | 19.82                |                     |
| 5               | 16QAM      | 1       | 24        | 19.94               | 19.82                      | 19.89                  | 19.73                       | 19.80                |                     |
| 5               | 16QAM      | 12      | 0         | 19.81               | 19.74                      | 19.75                  | 19.64                       | 19.71                | 20.5                |
| 5               | 16QAM      | 12      | 7         | 19.87               | 19.80                      | 19.82                  | 19.65                       | 19.73                |                     |
| 5               | 16QAM      | 12      | 13        | 19.81               | 19.76                      | 19.79                  | 19.73                       | 19.71                |                     |
| 5               | 16QAM      | 25      | 0         | 19.81               | 19.78                      | 19.81                  | 19.67                       | 19.75                |                     |
| 5               | 64QAM      | 1       | 0         | 19.81               | 19.72                      | 19.75                  | 19.66                       | 19.75                |                     |
| 5               | 64QAM      | 1       | 12        | 19.82               | 19.82                      | 19.83                  | 19.74                       | 19.75                | 20.5                |
| 5               | 64QAM      | 1       | 24        | 19.83               | 19.78                      | 19.82                  | 19.75                       | 19.74                |                     |
| 5               | 64QAM      | 12      | 0         | 19.86               | 19.74                      | 19.77                  | 19.68                       | 19.80                |                     |
| 5               | 64QAM      | 12      | 7         | 19.83               | 19.80                      | 19.87                  | 19.74                       | 19.80                |                     |
| 5               | 64QAM      | 12      | 13        | 19.81               | 19.79                      | 19.84                  | 19.74                       | 19.77                |                     |
| 5               | 64QAM      | 25      | 0         | 19.83               | 19.78                      | 19.84                  | 19.68                       | 19.77                |                     |



| Band 41_Ant 0   |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2500                | 2543.5                     | 2587                   | 2630.5                      | 2674                 |                     |  |
| 20              | QPSK       | 1       | 0         | 19.78               | 19.73                      | 19.41                  | 19.44                       | 19.22                | 20.5                |  |
| 20              | QPSK       | 1       | 49        | 19.73               | 19.71                      | 19.76                  | 19.66                       | 19.68                |                     |  |
| 20              | QPSK       | 1       | 99        | 19.69               | 19.74                      | 19.49                  | 19.26                       | 19.63                |                     |  |
| 20              | QPSK       | 50      | 0         | 19.90               | 19.79                      | 19.77                  | 19.73                       | 19.67                |                     |  |
| 20              | QPSK       | 50      | 24        | 19.81               | 19.89                      | 19.95                  | 19.80                       | 19.82                |                     |  |
| 20              | QPSK       | 50      | 50        | 19.89               | 19.87                      | 19.89                  | 19.73                       | 19.90                | 20.5                |  |
| 20              | QPSK       | 100     | 0         | 19.85               | 19.77                      | 19.85                  | 19.68                       | 19.74                |                     |  |
| 20              | 16QAM      | 1       | 0         | 20.17               | 20.10                      | 19.75                  | 19.75                       | 19.66                |                     |  |
| 20              | 16QAM      | 1       | 49        | 20.07               | 20.08                      | 20.11                  | 20.05                       | 20.02                |                     |  |
| 20              | 16QAM      | 1       | 99        | 20.09               | 20.13                      | 19.85                  | 19.82                       | 19.96                |                     |  |
| 20              | 16QAM      | 50      | 0         | 19.95               | 19.82                      | 19.79                  | 19.74                       | 19.71                | 20.5                |  |
| 20              | 16QAM      | 50      | 24        | 19.95               | 19.94                      | 20.00                  | 19.79                       | 19.88                |                     |  |
| 20              | 16QAM      | 50      | 50        | 19.91               | 19.92                      | 19.92                  | 19.75                       | 19.93                |                     |  |
| 20              | 16QAM      | 100     | 0         | 19.88               | 19.81                      | 19.90                  | 19.73                       | 19.76                |                     |  |
| 20              | 64QAM      | 1       | 0         | 20.07               | 19.98                      | 19.92                  | 19.64                       | 19.43                |                     |  |
| 20              | 64QAM      | 1       | 49        | 19.92               | 19.86                      | 20.00                  | 19.90                       | 19.88                | 20.5                |  |
| 20              | 64QAM      | 1       | 99        | 19.97               | 19.98                      | 19.71                  | 19.52                       | 19.90                |                     |  |
| 20              | 64QAM      | 50      | 0         | 19.86               | 19.81                      | 19.77                  | 19.80                       | 19.70                |                     |  |
| 20              | 64QAM      | 50      | 24        | 19.95               | 19.91                      | 19.98                  | 19.83                       | 19.88                |                     |  |
| 20              | 64QAM      | 50      | 50        | 19.90               | 19.89                      | 19.91                  | 19.79                       | 19.95                |                     |  |
| 20              | 64QAM      | 100     | 0         | 19.87               | 19.83                      | 19.86                  | 19.75                       | 19.78                | 20.5                |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41519                |                     |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 19.82               | 19.49                      | 19.57                  | 19.55                       | 19.44                | 20.5                |  |
| 15              | QPSK       | 1       | 37        | 19.77               | 19.72                      | 19.62                  | 19.68                       | 19.73                |                     |  |
| 15              | QPSK       | 1       | 74        | 19.74               | 19.49                      | 19.63                  | 19.44                       | 19.72                |                     |  |
| 15              | QPSK       | 36      | 0         | 19.92               | 19.75                      | 19.77                  | 19.74                       | 19.70                |                     |  |
| 15              | QPSK       | 36      | 20        | 19.84               | 19.88                      | 19.97                  | 19.83                       | 19.88                |                     |  |
| 15              | QPSK       | 36      | 39        | 19.87               | 19.78                      | 19.91                  | 19.76                       | 19.87                | 20.5                |  |
| 15              | QPSK       | 75      | 0         | 19.87               | 19.81                      | 19.68                  | 19.78                       | 19.77                |                     |  |
| 15              | 16QAM      | 1       | 0         | 20.16               | 19.89                      | 19.90                  | 19.90                       | 19.78                |                     |  |
| 15              | 16QAM      | 1       | 37        | 20.08               | 20.12                      | 20.11                  | 20.05                       | 20.11                |                     |  |
| 15              | 16QAM      | 1       | 74        | 20.10               | 19.90                      | 19.97                  | 19.79                       | 20.08                |                     |  |
| 15              | 16QAM      | 36      | 0         | 19.93               | 19.75                      | 19.75                  | 19.72                       | 19.68                | 20.5                |  |
| 15              | 16QAM      | 36      | 20        | 19.90               | 19.89                      | 19.94                  | 19.87                       | 19.88                |                     |  |
| 15              | 16QAM      | 36      | 39        | 19.89               | 19.81                      | 19.91                  | 19.74                       | 19.87                |                     |  |
| 15              | 16QAM      | 75      | 0         | 19.90               | 19.83                      | 19.90                  | 19.80                       | 19.78                |                     |  |
| 15              | 64QAM      | 1       | 0         | 20.02               | 19.71                      | 19.70                  | 19.80                       | 19.61                |                     |  |
| 15              | 64QAM      | 1       | 37        | 19.98               | 20.00                      | 19.97                  | 19.95                       | 19.94                | 20.5                |  |
| 15              | 64QAM      | 1       | 74        | 19.98               | 19.75                      | 19.62                  | 19.71                       | 19.95                |                     |  |
| 15              | 64QAM      | 36      | 0         | 19.93               | 19.75                      | 19.78                  | 19.79                       | 19.74                |                     |  |
| 15              | 64QAM      | 36      | 20        | 19.96               | 19.93                      | 19.95                  | 19.90                       | 19.96                |                     |  |
| 15              | 64QAM      | 36      | 39        | 19.92               | 19.80                      | 19.90                  | 19.81                       | 19.92                |                     |  |
| 15              | 64QAM      | 75      | 0         | 19.89               | 19.81                      | 19.87                  | 19.85                       | 19.80                | 20.5                |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 19.65               | 19.27                      | 19.29                  | 19.23                       | 19.24                | 20.5                |  |
| 10              | QPSK       | 1       | 25        | 19.51               | 19.52                      | 19.53                  | 19.46                       | 19.53                |                     |  |
| 10              | QPSK       | 1       | 49        | 19.51               | 19.33                      | 19.37                  | 19.32                       | 19.27                |                     |  |
| 10              | QPSK       | 25      | 0         | 19.74               | 19.56                      | 19.62                  | 19.52                       | 19.54                |                     |  |
| 10              | QPSK       | 25      | 12        | 19.74               | 19.74                      | 19.78                  | 19.61                       | 19.72                |                     |  |
| 10              | QPSK       | 25      | 25        | 19.71               | 19.62                      | 19.66                  | 19.58                       | 19.61                | 20.5                |  |
| 10              | QPSK       | 50      | 0         | 19.69               | 19.64                      | 19.68                  | 19.54                       | 19.66                |                     |  |
| 10              | 16QAM      | 1       | 0         | 19.97               | 19.64                      | 19.67                  | 19.60                       | 19.58                |                     |  |
| 10              | 16QAM      | 1       | 25        | 19.89               | 19.89                      | 19.94                  | 19.83                       | 19.88                |                     |  |
| 10              | 16QAM      | 1       | 49        | 19.91               | 19.64                      | 19.67                  | 19.59                       | 19.63                |                     |  |
| 10              | 16QAM      | 25      | 0         | 19.75               | 19.62                      | 19.63                  | 19.55                       | 19.59                | 20.5                |  |
| 10              | 16QAM      | 25      | 12        | 19.81               | 19.81                      | 19.84                  | 19.65                       | 19.76                |                     |  |
| 10              | 16QAM      | 25      | 25        | 19.75               | 19.68                      | 19.70                  | 19.62                       | 19.64                |                     |  |
| 10              | 16QAM      | 50      | 0         | 19.72               | 19.70                      | 19.74                  | 19.57                       | 19.68                |                     |  |
| 10              | 64QAM      | 1       | 0         | 19.91               | 19.55                      | 19.52                  | 19.49                       | 19.48                |                     |  |
| 10              | 64QAM      | 1       | 25        | 19.91               | 19.96                      | 19.88                  | 19.82                       | 19.85                | 20.5                |  |
| 10              | 64QAM      | 1       | 49        | 19.84               | 19.56                      | 19.63                  | 19.55                       | 19.57                |                     |  |
| 10              | 64QAM      | 25      | 0         | 19.82               | 19.65                      | 19.71                  | 19.63                       | 19.67                |                     |  |
| 10              | 64QAM      | 25      | 12        | 19.86               | 19.81                      | 19.86                  | 19.70                       | 19.84                |                     |  |
| 10              | 64QAM      | 25      | 25        | 19.81               | 19.71                      | 19.76                  | 19.67                       | 19.72                |                     |  |
| 10              | 64QAM      | 50      | 0         | 19.72               | 19.67                      | 19.74                  | 19.58                       | 19.71                | 20.5                |  |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41093                       | 41565                |                     |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.39                     | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 19.83               | 19.65                      | 19.51                  | 19.47                       | 19.51                | 20.5                |  |
| 5               | QPSK       | 1       | 12        | 19.52               | 19.52                      | 19.60                  | 19.52                       | 19.60                |                     |  |
| 5               | QPSK       | 1       | 24        | 19.59               | 19.56                      | 19.55                  | 19.47                       | 19.50                |                     |  |
| 5               | QPSK       | 12      | 0         | 19.75               | 19.65                      | 19.71                  | 19.62                       | 19.71                |                     |  |
| 5               | QPSK       | 12      | 7         | 19.77               | 19.73                      | 19.80                  | 19.62                       | 19.74                |                     |  |
| 5               | QPSK       | 12      | 13        | 19.71               | 19.70                      | 19.76                  | 19.65                       | 19.70                | 20.5                |  |
| 5               | QPSK       | 25      | 0         | 19.70               | 19.67                      | 19.71                  | 19.57                       | 19.68                |                     |  |
| 5               | 16QAM      | 1       | 0         | 19.93               | 19.73                      | 19.83                  | 19.66                       | 19.81                |                     |  |
| 5               | 16QAM      | 1       | 12        | 19.85               | 19.79                      | 19.88                  | 19.72                       | 19.82                |                     |  |
| 5               | 16QAM      | 1       | 24        | 19.90               | 19.80                      | 19.87                  | 19.69                       | 19.80                |                     |  |
| 5               | 16QAM      | 12      | 0         | 19.79               | 19.69                      | 19.74                  | 19.63                       | 19.72                | 20.5                |  |
| 5               | 16QAM      | 12      | 7         | 19.82               | 19.75                      | 19.80                  | 19.66                       | 19.73                |                     |  |
| 5               | 16QAM      | 12      | 13        | 19.77               | 19.73                      | 19.74                  | 19.69                       | 19.73                |                     |  |
| 5               | 16QAM      | 25      | 0         | 19.76               | 19.78                      | 19.79                  | 19.65                       | 19.74                |                     |  |
| 5               | 64QAM      | 1       | 0         | 19.82               | 19.65                      | 19.75                  | 19.63                       | 19.78                |                     |  |
| 5               | 64QAM      | 1       | 12        | 19.77               | 19.77                      | 19.81                  | 19.72                       | 19.77                | 20.5                |  |
| 5               | 64QAM      | 1       | 24        | 19.82               | 19.71                      | 19.81                  | 19.70                       | 19.72                |                     |  |
| 5               | 64QAM      | 12      | 0         | 19.78               | 19.71                      | 19.76                  | 19.66                       | 19.77                |                     |  |
| 5               | 64QAM      | 12      | 7         | 19.81               | 19.79                      | 19.86                  | 19.71                       | 19.77                |                     |  |
| 5               | 64QAM      | 12      | 13        | 19.81               | 19.74                      | 19.81                  | 19.71                       | 19.75                |                     |  |
| 5               | 64QAM      | 25      | 0         | 19.80               | 19.77                      | 19.83                  | 19.67                       | 19.77                | 20.5                |  |

| Band 38_Ant 0   |            |         |           |                     |                        |                      |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq |
| Channel         |            |         |           | 37850               | 38000                  | 38150                |
| Frequency (MHz) |            |         |           | 2560                | 2564                   | 2568                 |
| 20              | QPSK       | 1       | 0         | 16.87               | 16.85                  | 16.84                |
| 20              | QPSK       | 1       | 49        | 16.79               | 16.76                  | 16.72                |
| 20              | QPSK       | 1       | 99        | 16.75               | 16.65                  | 16.61                |
| 20              | QPSK       | 50      | 0         | 16.71               | 16.71                  | 16.68                |
| 20              | QPSK       | 80      | 24        | 16.95               | 16.97                  | 16.72                |
| 20              | QPSK       | 50      | 50        | 16.74               | 16.70                  | 16.66                |
| 20              | QPSK       | 100     | 0         | 16.79               | 16.74                  | 16.61                |
| 20              | 16QAM      | 1       | 0         | 17.02               | 17.03                  | 17.04                |
| 20              | 16QAM      | 1       | 49        | 16.95               | 16.91                  | 16.85                |
| 20              | 16QAM      | 1       | 99        | 16.90               | 16.94                  | 16.83                |
| 20              | 16QAM      | 50      | 0         | 16.78               | 16.72                  | 16.70                |
| 20              | 16QAM      | 50      | 24        | 16.94               | 16.88                  | 16.76                |
| 20              | 16QAM      | 50      | 50        | 16.80               | 16.76                  | 16.70                |
| 20              | 16QAM      | 100     | 0         | 16.82               | 16.75                  | 16.64                |
| 20              | 64QAM      | 1       | 0         | 16.62               | 16.64                  | 16.58                |
| 20              | 64QAM      | 1       | 49        | 16.63               | 16.52                  | 16.55                |
| 20              | 64QAM      | 1       | 99        | 16.61               | 16.51                  | 16.49                |
| 20              | 64QAM      | 50      | 0         | 16.78               | 16.74                  | 16.71                |
| 20              | 64QAM      | 50      | 24        | 16.92               | 16.90                  | 16.78                |
| 20              | 64QAM      | 50      | 50        | 16.81               | 16.75                  | 16.71                |
| 20              | 64QAM      | 100     | 0         | 16.81               | 16.77                  | 16.65                |
| Channel         |            |         |           | 37925               | 38000                  | 38175                |
| Frequency (MHz) |            |         |           | 2577.5              | 2585                   | 2612.5               |
| 15              | QPSK       | 1       | 0         | 16.84               | 16.84                  | 16.75                |
| 15              | QPSK       | 1       | 37        | 16.80               | 16.77                  | 16.70                |
| 15              | QPSK       | 1       | 74        | 16.77               | 16.72                  | 16.66                |
| 15              | QPSK       | 36      | 0         | 16.74               | 16.73                  | 16.68                |
| 15              | QPSK       | 36      | 20        | 16.86               | 16.86                  | 16.72                |
| 15              | QPSK       | 36      | 39        | 16.80               | 16.74                  | 16.67                |
| 15              | QPSK       | 75      | 0         | 16.81               | 16.79                  | 16.65                |
| 15              | 16QAM      | 1       | 0         | 16.97               | 17.02                  | 16.97                |
| 15              | 16QAM      | 1       | 37        | 16.88               | 16.90                  | 16.80                |
| 15              | 16QAM      | 1       | 74        | 16.95               | 16.85                  | 16.79                |
| 15              | 16QAM      | 36      | 0         | 16.74               | 16.70                  | 16.63                |
| 15              | 16QAM      | 36      | 20        | 16.86               | 16.86                  | 16.70                |
| 15              | 16QAM      | 36      | 39        | 16.78               | 16.74                  | 16.65                |
| 15              | 16QAM      | 75      | 0         | 16.85               | 16.83                  | 16.66                |
| 15              | 64QAM      | 1       | 0         | 16.56               | 16.53                  | 16.49                |
| 15              | 64QAM      | 1       | 37        | 16.59               | 16.54                  | 16.54                |
| 15              | 64QAM      | 1       | 74        | 16.59               | 16.49                  | 16.44                |
| 15              | 64QAM      | 36      | 0         | 16.80               | 16.77                  | 16.72                |
| 15              | 64QAM      | 36      | 20        | 16.93               | 16.90                  | 16.76                |
| 15              | 64QAM      | 36      | 39        | 16.83               | 16.79                  | 16.72                |
| 15              | 64QAM      | 75      | 0         | 16.86               | 16.85                  | 16.70                |
| Channel         |            |         |           | 37925               | 38000                  | 38200                |
| Frequency (MHz) |            |         |           | 2579                | 2585                   | 2615                 |
| 10              | QPSK       | 1       | 0         | 16.85               | 16.80                  | 16.84                |
| 10              | QPSK       | 1       | 25        | 16.78               | 16.75                  | 16.70                |
| 10              | QPSK       | 1       | 49        | 16.75               | 16.61                  | 16.52                |
| 10              | QPSK       | 25      | 0         | 16.69               | 16.67                  | 16.58                |
| 10              | QPSK       | 25      | 12        | 16.89               | 16.80                  | 16.62                |
| 10              | QPSK       | 25      | 25        | 16.73               | 16.60                  | 16.62                |
| 10              | QPSK       | 50      | 0         | 16.72               | 16.66                  | 16.59                |
| 10              | 16QAM      | 1       | 0         | 16.93               | 16.95                  | 16.99                |
| 10              | 16QAM      | 1       | 25        | 16.86               | 16.85                  | 16.81                |
| 10              | 16QAM      | 1       | 49        | 16.85               | 16.81                  | 16.73                |
| 10              | 16QAM      | 25      | 0         | 16.66               | 16.67                  | 16.70                |
| 10              | 16QAM      | 25      | 12        | 16.88               | 16.84                  | 16.73                |
| 10              | 16QAM      | 25      | 25        | 16.72               | 16.74                  | 16.66                |
| 10              | 16QAM      | 50      | 0         | 16.77               | 16.66                  | 16.56                |
| 10              | 64QAM      | 1       | 0         | 16.53               | 16.64                  | 16.53                |
| 10              | 64QAM      | 1       | 25        | 16.59               | 16.50                  | 16.45                |
| 10              | 64QAM      | 1       | 49        | 16.53               | 16.47                  | 16.45                |
| 10              | 64QAM      | 25      | 0         | 16.73               | 16.64                  | 16.66                |
| 10              | 64QAM      | 25      | 12        | 16.85               | 16.86                  | 16.74                |
| 10              | 64QAM      | 25      | 25        | 16.78               | 16.73                  | 16.69                |
| 10              | 64QAM      | 50      | 0         | 16.72               | 16.74                  | 16.63                |
| Channel         |            |         |           | 37775               | 38000                  | 38225                |
| Frequency (MHz) |            |         |           | 2572.5              | 2582                   | 2617.5               |
| 5               | QPSK       | 1       | 0         | 16.40               | 16.44                  | 16.31                |
| 5               | QPSK       | 1       | 12        | 16.53               | 16.52                  | 16.42                |
| 5               | QPSK       | 1       | 24        | 16.46               | 16.44                  | 16.33                |
| 5               | QPSK       | 12      | 0         | 16.62               | 16.54                  | 16.45                |
| 5               | QPSK       | 12      | 7         | 16.66               | 16.66                  | 16.56                |
| 5               | QPSK       | 12      | 13        | 16.64               | 16.59                  | 16.51                |
| 5               | QPSK       | 25      | 0         | 16.61               | 16.61                  | 16.51                |
| 5               | 16QAM      | 1       | 0         | 16.57               | 16.56                  | 16.49                |
| 5               | 16QAM      | 1       | 12        | 16.74               | 16.71                  | 16.64                |
| 5               | 16QAM      | 1       | 24        | 16.66               | 16.65                  | 16.56                |
| 5               | 16QAM      | 12      | 0         | 16.61               | 16.52                  | 16.43                |
| 5               | 16QAM      | 12      | 7         | 16.63               | 16.60                  | 16.55                |
| 5               | 16QAM      | 12      | 13        | 16.61               | 16.57                  | 16.47                |
| 5               | 16QAM      | 25      | 0         | 16.64               | 16.63                  | 16.50                |
| 5               | 64QAM      | 1       | 0         | 16.24               | 16.19                  | 16.12                |
| 5               | 64QAM      | 1       | 12        | 16.33               | 16.27                  | 16.20                |
| 5               | 64QAM      | 1       | 24        | 16.37               | 16.25                  | 16.17                |
| 5               | 64QAM      | 12      | 0         | 16.66               | 16.59                  | 16.53                |
| 5               | 64QAM      | 12      | 7         | 16.72               | 16.70                  | 16.64                |
| 5               | 64QAM      | 12      | 13        | 16.67               | 16.66                  | 16.57                |
| 5               | 64QAM      | 25      | 0         | 16.70               | 16.70                  | 16.60                |



| Band 41_Ant 0   |            |         |           |                       |                              |                          |                               |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2500                  | 2543.5                       | 2587                     | 2630.5                        | 2674                   |                     |
| 20              | QPSK       | 1       | 0         | 16.94                 | 16.83                        | 16.58                    | 16.56                         | 16.43                  | 17.5                |
| 20              | QPSK       | 1       | 49        | 16.85                 | 16.83                        | 16.92                    | 16.81                         | 16.87                  |                     |
| 20              | QPSK       | 1       | 99        | 16.85                 | 16.88                        | 16.83                    | 16.40                         | 16.80                  |                     |
| 20              | QPSK       | 50      | 0         | 17.03                 | 16.88                        | 16.83                    | 16.80                         | 16.74                  |                     |
| 20              | QPSK       | 50      | 24        | 17.04                 | 16.97                        | 17.03                    | 16.87                         | 16.98                  | 17.5                |
| 20              | QPSK       | 50      | 50        | 16.97                 | 16.95                        | 16.98                    | 16.79                         | 16.95                  |                     |
| 20              | QPSK       | 100     | 0         | 16.89                 | 16.85                        | 16.95                    | 16.75                         | 16.80                  |                     |
| 20              | 16QAM      | 1       | 0         | 16.99                 | 16.92                        | 16.85                    | 16.84                         | 16.54                  |                     |
| 20              | 16QAM      | 1       | 49        | 16.92                 | 16.87                        | 17.02                    | 16.90                         | 16.92                  | 17.5                |
| 20              | 16QAM      | 1       | 99        | 16.91                 | 16.96                        | 16.72                    | 16.50                         | 16.85                  |                     |
| 20              | 16QAM      | 50      | 0         | 17.00                 | 16.87                        | 16.85                    | 16.84                         | 16.79                  |                     |
| 20              | 16QAM      | 50      | 24        | 16.88                 | 16.96                        | 17.06                    | 16.93                         | 16.92                  |                     |
| 20              | 16QAM      | 50      | 50        | 16.96                 | 16.97                        | 16.99                    | 16.84                         | 16.99                  | 17.5                |
| 20              | 16QAM      | 100     | 0         | 16.81                 | 16.86                        | 16.95                    | 16.79                         | 16.86                  |                     |
| 20              | 64QAM      | 1       | 0         | 16.92                 | 16.58                        | 16.34                    | 16.58                         | 16.28                  |                     |
| 20              | 64QAM      | 1       | 49        | 16.72                 | 16.80                        | 16.85                    | 16.80                         | 16.73                  | 17.5                |
| 20              | 64QAM      | 1       | 99        | 16.78                 | 16.99                        | 16.54                    | 16.36                         | 16.74                  |                     |
| 20              | 64QAM      | 50      | 0         | 17.02                 | 16.92                        | 16.87                    | 16.85                         | 16.80                  |                     |
| 20              | 64QAM      | 50      | 24        | 16.99                 | 17.00                        | 17.08                    | 16.91                         | 16.94                  |                     |
| 20              | 64QAM      | 50      | 50        | 16.94                 | 17.03                        | 17.01                    | 16.85                         | 17.02                  | 17.5                |
| 20              | 64QAM      | 100     | 0         | 16.93                 | 16.89                        | 16.97                    | 16.82                         | 16.85                  |                     |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 16.95                 | 16.84                        | 16.66                    | 16.74                         | 16.58                  | 17.5                |
| 15              | QPSK       | 1       | 37        | 16.93                 | 16.88                        | 16.89                    | 16.85                         | 16.79                  |                     |
| 15              | QPSK       | 1       | 74        | 16.87                 | 16.66                        | 16.80                    | 16.59                         | 16.78                  |                     |
| 15              | QPSK       | 36      | 0         | 17.05                 | 16.82                        | 16.87                    | 16.81                         | 16.76                  |                     |
| 15              | QPSK       | 36      | 20        | 17.03                 | 16.95                        | 17.01                    | 16.94                         | 16.96                  | 17.5                |
| 15              | QPSK       | 36      | 39        | 16.98                 | 16.86                        | 16.99                    | 16.84                         | 16.94                  |                     |
| 15              | QPSK       | 72      | 0         | 16.96                 | 16.89                        | 16.97                    | 16.88                         | 16.82                  |                     |
| 15              | 16QAM      | 1       | 0         | 16.98                 | 16.74                        | 16.84                    | 16.82                         | 16.74                  |                     |
| 15              | 16QAM      | 1       | 37        | 16.85                 | 16.85                        | 17.00                    | 16.90                         | 17.00                  | 17.5                |
| 15              | 16QAM      | 1       | 74        | 16.95                 | 16.73                        | 16.92                    | 16.71                         | 16.98                  |                     |
| 15              | 16QAM      | 36      | 0         | 16.97                 | 16.72                        | 16.81                    | 16.80                         | 16.73                  |                     |
| 15              | 16QAM      | 36      | 20        | 16.97                 | 16.87                        | 17.00                    | 16.90                         | 16.95                  |                     |
| 15              | 16QAM      | 36      | 39        | 16.94                 | 16.80                        | 16.95                    | 16.82                         | 16.95                  | 17.5                |
| 15              | 16QAM      | 72      | 0         | 16.86                 | 16.89                        | 17.00                    | 16.91                         | 16.86                  |                     |
| 15              | 64QAM      | 1       | 0         | 16.84                 | 16.36                        | 16.54                    | 16.60                         | 16.47                  |                     |
| 15              | 64QAM      | 1       | 37        | 16.75                 | 16.87                        | 16.83                    | 16.76                         | 16.78                  |                     |
| 15              | 64QAM      | 1       | 74        | 16.74                 | 16.72                        | 16.72                    | 16.52                         | 16.80                  | 17.5                |
| 15              | 64QAM      | 36      | 0         | 17.01                 | 16.84                        | 16.88                    | 16.86                         | 16.81                  |                     |
| 15              | 64QAM      | 36      | 20        | 17.02                 | 16.97                        | 17.07                    | 16.97                         | 17.02                  |                     |
| 15              | 64QAM      | 36      | 39        | 16.88                 | 16.90                        | 17.03                    | 16.86                         | 17.02                  |                     |
| 15              | 64QAM      | 72      | 0         | 16.86                 | 16.91                        | 16.99                    | 16.94                         | 16.86                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 39700                 | 40160                        | 40620                    | 41080                         | 41540                  |                     |
| Frequency (MHz) |            |         |           | 2501                  | 2547                         | 2593                     | 2639                          | 2685                   |                     |
| 10              | QPSK       | 1       | 0         | 16.86                 | 16.81                        | 16.81                    | 16.66                         | 16.50                  | 17.5                |
| 10              | QPSK       | 1       | 25        | 16.90                 | 16.85                        | 16.86                    | 16.80                         | 16.71                  |                     |
| 10              | QPSK       | 1       | 49        | 16.85                 | 16.84                        | 16.76                    | 16.53                         | 16.71                  |                     |
| 10              | QPSK       | 25      | 0         | 16.96                 | 16.82                        | 16.87                    | 16.79                         | 16.71                  |                     |
| 10              | QPSK       | 25      | 12        | 16.98                 | 16.90                        | 16.91                    | 16.88                         | 16.91                  | 17.5                |
| 10              | QPSK       | 25      | 25        | 16.91                 | 16.80                        | 16.92                    | 16.77                         | 16.90                  |                     |
| 10              | QPSK       | 50      | 0         | 16.86                 | 16.81                        | 16.96                    | 16.78                         | 16.80                  |                     |
| 10              | 16QAM      | 1       | 0         | 16.89                 | 16.84                        | 16.80                    | 16.78                         | 16.84                  |                     |
| 10              | 16QAM      | 1       | 25        | 16.79                 | 16.76                        | 16.95                    | 16.88                         | 16.92                  | 17.5                |
| 10              | 16QAM      | 1       | 49        | 16.85                 | 16.67                        | 16.86                    | 16.71                         | 16.92                  |                     |
| 10              | 16QAM      | 25      | 0         | 16.94                 | 16.66                        | 16.76                    | 16.72                         | 16.70                  |                     |
| 10              | 16QAM      | 25      | 12        | 16.87                 | 16.82                        | 16.92                    | 16.86                         | 16.91                  |                     |
| 10              | 16QAM      | 25      | 25        | 16.86                 | 16.76                        | 16.89                    | 16.75                         | 16.86                  | 17.5                |
| 10              | 16QAM      | 50      | 0         | 16.96                 | 16.86                        | 16.96                    | 16.90                         | 16.80                  |                     |
| 10              | 64QAM      | 1       | 0         | 16.84                 | 16.35                        | 16.51                    | 16.59                         | 16.43                  |                     |
| 10              | 64QAM      | 1       | 25        | 16.73                 | 16.78                        | 16.73                    | 16.70                         | 16.71                  |                     |
| 10              | 64QAM      | 1       | 49        | 16.70                 | 16.67                        | 16.72                    | 16.43                         | 16.77                  | 17.5                |
| 10              | 64QAM      | 25      | 0         | 16.97                 | 16.84                        | 16.86                    | 16.85                         | 16.78                  |                     |
| 10              | 64QAM      | 25      | 12        | 16.98                 | 16.88                        | 16.99                    | 16.90                         | 16.92                  |                     |
| 10              | 64QAM      | 25      | 25        | 16.89                 | 16.86                        | 16.95                    | 16.79                         | 16.93                  |                     |
| 10              | 64QAM      | 50      | 0         | 16.86                 | 16.82                        | 16.96                    | 16.88                         | 16.77                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 39675                 | 40148                        | 40620                    | 41093                         | 41569                  |                     |
| Frequency (MHz) |            |         |           | 2498.5                | 2543.3                       | 2593                     | 2640.30                       | 2687.2                 |                     |
| 5               | QPSK       | 1       | 0         | 16.75                 | 16.57                        | 16.65                    | 16.55                         | 16.71                  | 17.5                |
| 5               | QPSK       | 1       | 12        | 16.66                 | 16.64                        | 16.72                    | 16.64                         | 16.71                  |                     |
| 5               | QPSK       | 1       | 24        | 16.64                 | 16.58                        | 16.67                    | 16.56                         | 16.65                  |                     |
| 5               | QPSK       | 12      | 0         | 16.83                 | 16.74                        | 16.75                    | 16.67                         | 16.77                  |                     |
| 5               | QPSK       | 12      | 7         | 16.85                 | 16.82                        | 16.82                    | 16.70                         | 16.77                  | 17.5                |
| 5               | QPSK       | 12      | 13        | 16.78                 | 16.78                        | 16.82                    | 16.74                         | 16.76                  |                     |
| 5               | QPSK       | 25      | 0         | 16.78                 | 16.80                        | 16.81                    | 16.66                         | 16.75                  |                     |
| 5               | 16QAM      | 1       | 0         | 16.89                 | 16.71                        | 16.80                    | 16.71                         | 16.79                  |                     |
| 5               | 16QAM      | 1       | 12        | 16.85                 | 16.86                        | 16.88                    | 16.86                         | 16.83                  | 17.5                |
| 5               | 16QAM      | 1       | 24        | 16.88                 | 16.79                        | 16.85                    | 16.75                         | 16.85                  |                     |
| 5               | 16QAM      | 12      | 0         | 16.80                 | 16.71                        | 16.76                    | 16.67                         | 16.76                  |                     |
| 5               | 16QAM      | 12      | 7         | 16.79                 | 16.78                        | 16.85                    | 16.67                         | 16.80                  |                     |
| 5               | 16QAM      | 12      | 13        | 16.78                 | 16.77                        | 16.82                    | 16.71                         | 16.73                  | 17.5                |
| 5               | 16QAM      | 25      | 0         | 16.83                 | 16.79                        | 16.83                    | 16.71                         | 16.78                  |                     |
| 5               | 64QAM      | 1       | 0         | 16.67                 | 16.39                        | 16.60                    | 16.64                         | 16.60                  |                     |
| 5               | 64QAM      | 1       | 12        | 16.57                 | 16.77                        | 16.67                    | 16.68                         | 16.66                  |                     |
| 5               | 64QAM      | 1       | 24        | 16.59                 | 16.75                        | 16.69                    | 16.66                         | 16.64                  | 17.5                |
| 5               | 64QAM      | 12      | 0         | 16.84                 | 16.78                        | 16.83                    | 16.77                         | 16.83                  |                     |
| 5               | 64QAM      | 12      | 7         | 16.85                 | 16.89                        | 16.90                    | 16.74                         | 16.84                  |                     |
| 5               | 64QAM      | 12      | 13        | 16.81                 | 16.85                        | 16.85                    | 16.79                         | 16.81                  |                     |
| 5               | 64QAM      | 25      | 0         | 16.83                 | 16.88                        | 16.91                    | 16.75                         | 16.84                  |                     |



| Band 41_Ant 0   |            |         |           |                       |                              |                          |                               |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2500                  | 2543.5                       | 2587                     | 2630.5                        | 2674                   |                     |
| 20              | QPSK       | 1       | 0         | 16.83                 | 16.72                        | 16.42                    | 16.44                         | 16.31                  | 17.5                |
| 20              | QPSK       | 1       | 49        | 16.77                 | 16.70                        | 16.79                    | 16.66                         | 16.69                  |                     |
| 20              | QPSK       | 1       | 99        | 16.74                 | 16.76                        | 16.49                    | 16.30                         | 16.84                  |                     |
| 20              | QPSK       | 50      | 0         | 16.89                 | 16.85                        | 16.80                    | 16.76                         | 16.70                  |                     |
| 20              | QPSK       | 50      | 24        | 16.98                 | 16.94                        | 17.04                    | 16.84                         | 16.85                  | 17.5                |
| 20              | QPSK       | 50      | 50        | 16.94                 | 16.92                        | 16.93                    | 16.76                         | 16.92                  |                     |
| 20              | QPSK       | 100     | 0         | 16.89                 | 16.79                        | 16.91                    | 16.71                         | 16.77                  |                     |
| 20              | 16QAM      | 1       | 0         | 17.17                 | 17.01                        | 16.77                    | 16.84                         | 16.87                  |                     |
| 20              | 16QAM      | 1       | 49        | 17.07                 | 17.01                        | 17.20                    | 17.02                         | 17.10                  | 17.5                |
| 20              | 16QAM      | 1       | 99        | 17.10                 | 17.06                        | 16.86                    | 16.81                         | 17.04                  |                     |
| 20              | 16QAM      | 50      | 0         | 17.01                 | 16.85                        | 16.84                    | 16.81                         | 16.73                  |                     |
| 20              | 16QAM      | 50      | 24        | 16.97                 | 16.95                        | 17.06                    | 16.89                         | 16.89                  |                     |
| 20              | 16QAM      | 50      | 50        | 16.98                 | 16.96                        | 16.96                    | 16.82                         | 16.97                  | 17.5                |
| 20              | 16QAM      | 100     | 0         | 16.88                 | 16.83                        | 16.94                    | 16.77                         | 16.80                  |                     |
| 20              | 64QAM      | 1       | 0         | 17.11                 | 16.85                        | 16.60                    | 16.73                         | 16.49                  |                     |
| 20              | 64QAM      | 1       | 49        | 16.95                 | 17.03                        | 17.10                    | 17.01                         | 16.98                  | 17.5                |
| 20              | 64QAM      | 1       | 99        | 16.99                 | 17.18                        | 16.80                    | 16.57                         | 16.94                  |                     |
| 20              | 64QAM      | 50      | 0         | 17.01                 | 16.91                        | 16.85                    | 16.83                         | 16.76                  |                     |
| 20              | 64QAM      | 50      | 24        | 16.98                 | 17.01                        | 17.04                    | 16.90                         | 16.92                  |                     |
| 20              | 64QAM      | 50      | 50        | 16.92                 | 17.01                        | 16.98                    | 16.83                         | 16.97                  | 17.5                |
| 20              | 64QAM      | 100     | 0         | 16.91                 | 16.89                        | 16.93                    | 16.79                         | 16.83                  |                     |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 16.87                 | 16.60                        | 16.62                    | 16.61                         | 16.48                  | 17.5                |
| 15              | QPSK       | 1       | 37        | 16.86                 | 16.81                        | 16.82                    | 16.75                         | 16.74                  |                     |
| 15              | QPSK       | 1       | 74        | 16.84                 | 16.58                        | 16.67                    | 16.52                         | 16.72                  |                     |
| 15              | QPSK       | 36      | 0         | 16.99                 | 16.78                        | 16.85                    | 16.80                         | 16.72                  |                     |
| 15              | QPSK       | 36      | 20        | 16.97                 | 16.91                        | 17.00                    | 16.87                         | 16.95                  | 17.5                |
| 15              | QPSK       | 36      | 39        | 16.92                 | 16.89                        | 16.97                    | 16.81                         | 16.93                  |                     |
| 15              | QPSK       | 72      | 0         | 16.92                 | 16.87                        | 16.96                    | 16.86                         | 16.80                  |                     |
| 15              | 16QAM      | 1       | 0         | 17.18                 | 16.89                        | 16.92                    | 16.97                         | 16.86                  |                     |
| 15              | 16QAM      | 1       | 37        | 17.12                 | 17.00                        | 17.17                    | 17.07                         | 17.17                  | 17.5                |
| 15              | 16QAM      | 1       | 74        | 17.08                 | 16.83                        | 17.05                    | 16.81                         | 17.14                  |                     |
| 15              | 16QAM      | 36      | 0         | 16.94                 | 16.71                        | 16.82                    | 16.79                         | 16.76                  |                     |
| 15              | 16QAM      | 36      | 20        | 16.94                 | 16.85                        | 16.97                    | 16.90                         | 16.92                  |                     |
| 15              | 16QAM      | 36      | 39        | 16.95                 | 16.77                        | 16.95                    | 16.80                         | 16.91                  | 17.5                |
| 15              | 16QAM      | 72      | 0         | 16.92                 | 16.84                        | 16.96                    | 16.88                         | 16.80                  |                     |
| 15              | 64QAM      | 1       | 0         | 17.06                 | 16.84                        | 16.75                    | 16.82                         | 16.66                  |                     |
| 15              | 64QAM      | 1       | 37        | 17.01                 | 17.15                        | 17.07                    | 16.97                         | 16.99                  |                     |
| 15              | 64QAM      | 1       | 74        | 16.95                 | 16.92                        | 16.91                    | 16.73                         | 17.01                  | 17.5                |
| 15              | 64QAM      | 36      | 0         | 17.03                 | 16.84                        | 16.87                    | 16.84                         | 16.79                  |                     |
| 15              | 64QAM      | 36      | 20        | 16.99                 | 16.95                        | 17.05                    | 16.95                         | 16.96                  |                     |
| 15              | 64QAM      | 36      | 39        | 17.00                 | 16.89                        | 16.98                    | 16.85                         | 16.97                  |                     |
| 15              | 64QAM      | 72      | 0         | 16.94                 | 16.89                        | 16.98                    | 16.90                         | 16.83                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 39700                 | 40110                        | 40593                    | 41080                         | 41550                  |                     |
| Frequency (MHz) |            |         |           | 2501                  | 2547                         | 2593                     | 2639                          | 2685                   |                     |
| 10              | QPSK       | 1       | 0         | 16.80                 | 16.67                        | 16.37                    | 16.34                         | 16.27                  | 17.5                |
| 10              | QPSK       | 1       | 25        | 16.73                 | 16.62                        | 16.77                    | 16.58                         | 16.59                  |                     |
| 10              | QPSK       | 1       | 49        | 16.69                 | 16.69                        | 16.44                    | 16.25                         | 16.58                  |                     |
| 10              | QPSK       | 25      | 0         | 16.94                 | 16.90                        | 16.75                    | 16.75                         | 16.70                  |                     |
| 10              | QPSK       | 25      | 12        | 16.90                 | 16.85                        | 16.95                    | 16.81                         | 16.81                  | 17.5                |
| 10              | QPSK       | 25      | 25        | 16.87                 | 16.83                        | 16.87                    | 16.75                         | 16.82                  |                     |
| 10              | QPSK       | 50      | 0         | 16.84                 | 16.74                        | 16.90                    | 16.61                         | 16.72                  |                     |
| 10              | 16QAM      | 1       | 0         | 17.10                 | 17.00                        | 16.69                    | 16.81                         | 16.58                  |                     |
| 10              | 16QAM      | 1       | 25        | 17.02                 | 17.01                        | 17.17                    | 16.93                         | 17.03                  | 17.5                |
| 10              | 16QAM      | 1       | 49        | 17.08                 | 17.02                        | 16.83                    | 16.52                         | 17.01                  |                     |
| 10              | 16QAM      | 25      | 0         | 16.99                 | 16.85                        | 16.78                    | 16.73                         | 16.67                  |                     |
| 10              | 16QAM      | 25      | 12        | 16.93                 | 16.89                        | 16.97                    | 16.79                         | 16.79                  |                     |
| 10              | 16QAM      | 25      | 25        | 16.96                 | 16.94                        | 16.96                    | 16.74                         | 16.96                  | 17.5                |
| 10              | 16QAM      | 50      | 0         | 16.79                 | 16.77                        | 16.90                    | 16.73                         | 16.71                  |                     |
| 10              | 64QAM      | 1       | 0         | 17.07                 | 16.81                        | 16.59                    | 16.64                         | 16.44                  |                     |
| 10              | 64QAM      | 1       | 25        | 16.91                 | 16.93                        | 17.02                    | 16.98                         | 16.93                  |                     |
| 10              | 64QAM      | 1       | 49        | 16.92                 | 17.14                        | 16.79                    | 16.53                         | 16.90                  | 17.5                |
| 10              | 64QAM      | 25      | 0         | 16.96                 | 16.80                        | 16.80                    | 16.76                         | 16.76                  |                     |
| 10              | 64QAM      | 25      | 12        | 16.94                 | 17.01                        | 16.94                    | 16.85                         | 16.89                  |                     |
| 10              | 64QAM      | 25      | 25        | 16.89                 | 16.94                        | 16.90                    | 16.75                         | 16.88                  |                     |
| 10              | 64QAM      | 50      | 0         | 16.82                 | 16.81                        | 16.91                    | 16.79                         | 16.81                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 39675                 | 40148                        | 40620                    | 41093                         | 41565                  |                     |
| Frequency (MHz) |            |         |           | 2498.5                | 2545.3                       | 2593                     | 2640.50                       | 2687.5                 |                     |
| 5               | QPSK       | 1       | 0         | 16.66                 | 16.48                        | 16.59                    | 16.46                         | 16.58                  | 17.5                |
| 5               | QPSK       | 1       | 12        | 16.59                 | 16.57                        | 16.64                    | 16.55                         | 16.60                  |                     |
| 5               | QPSK       | 1       | 24        | 16.61                 | 16.50                        | 16.61                    | 16.50                         | 16.55                  |                     |
| 5               | QPSK       | 12      | 0         | 16.82                 | 16.70                        | 16.75                    | 16.65                         | 16.77                  |                     |
| 5               | QPSK       | 12      | 7         | 16.85                 | 16.76                        | 16.85                    | 16.68                         | 16.76                  | 17.5                |
| 5               | QPSK       | 12      | 13        | 16.79                 | 16.77                        | 16.77                    | 16.69                         | 16.72                  |                     |
| 5               | QPSK       | 25      | 0         | 16.78                 | 16.76                        | 16.80                    | 16.65                         | 16.73                  |                     |
| 5               | 16QAM      | 1       | 0         | 16.94                 | 16.89                        | 16.86                    | 16.79                         | 16.84                  |                     |
| 5               | 16QAM      | 1       | 12        | 16.91                 | 16.91                        | 16.89                    | 16.86                         | 16.85                  | 17.5                |
| 5               | 16QAM      | 1       | 24        | 16.93                 | 16.94                        | 16.90                    | 16.84                         | 16.79                  |                     |
| 5               | 16QAM      | 12      | 0         | 16.82                 | 16.74                        | 16.81                    | 16.73                         | 16.81                  |                     |
| 5               | 16QAM      | 12      | 7         | 16.87                 | 16.85                        | 16.86                    | 16.71                         | 16.80                  |                     |
| 5               | 16QAM      | 12      | 13        | 16.80                 | 16.81                        | 16.82                    | 16.77                         | 16.79                  | 17.5                |
| 5               | 16QAM      | 25      | 0         | 16.82                 | 16.81                        | 16.86                    | 16.69                         | 16.79                  |                     |
| 5               | 64QAM      | 1       | 0         | 16.87                 | 16.75                        | 16.82                    | 16.71                         | 16.79                  |                     |
| 5               | 64QAM      | 1       | 12        | 16.85                 | 16.87                        | 16.88                    | 16.79                         | 16.82                  |                     |
| 5               | 64QAM      | 1       | 24        | 16.85                 | 16.84                        | 16.87                    | 16.80                         | 16.78                  | 17.5                |
| 5               | 64QAM      | 12      | 0         | 16.87                 | 16.77                        | 16.81                    | 16.75                         | 16.84                  |                     |
| 5               | 64QAM      | 12      | 7         | 16.86                 | 16.87                        | 16.93                    | 16.76                         | 16.85                  |                     |
| 5               | 64QAM      | 12      | 13        | 16.83                 | 16.86                        | 16.86                    | 16.81                         | 16.81                  |                     |
| 5               | 64QAM      | 25      | 0         | 16.81                 | 16.85                        | 16.90                    | 16.73                         | 16.81                  |                     |



| Band 38_Ant 0   |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 37650                 | 38000                    | 38150                  | 18                  |
| Frequency (MHz) |            |         |           | 2550                  | 2595                     | 2610                   |                     |
| 20              | QPSK       | 1       | 0         | 16.87                 | 16.85                    | 16.84                  | 18                  |
| 20              | QPSK       | 1       | 49        | 16.79                 | 16.76                    | 16.72                  |                     |
| 20              | QPSK       | 1       | 99        | 16.75                 | 16.65                    | 16.61                  |                     |
| 20              | QPSK       | 50      | 0         | 16.71                 | 16.71                    | 16.68                  |                     |
| 20              | QPSK       | 50      | 24        | 16.89                 | 16.87                    | 16.72                  |                     |
| 20              | QPSK       | 50      | 50        | 16.74                 | 16.70                    | 16.66                  | 18                  |
| 20              | QPSK       | 100     | 0         | 16.79                 | 16.74                    | 16.61                  |                     |
| 20              | 16QAM      | 1       | 0         | 17.02                 | 17.03                    | 17.04                  |                     |
| 20              | 16QAM      | 1       | 49        | 16.95                 | 16.91                    | 16.85                  |                     |
| 20              | 16QAM      | 1       | 99        | 16.90                 | 16.84                    | 16.83                  |                     |
| 20              | 16QAM      | 50      | 0         | 16.76                 | 16.72                    | 16.70                  | 18                  |
| 20              | 16QAM      | 50      | 24        | 16.94                 | 16.88                    | 16.76                  |                     |
| 20              | 16QAM      | 50      | 50        | 16.80                 | 16.76                    | 16.70                  |                     |
| 20              | 16QAM      | 100     | 0         | 16.82                 | 16.75                    | 16.64                  |                     |
| 20              | 64QAM      | 1       | 0         | 16.62                 | 16.64                    | 16.58                  |                     |
| 20              | 64QAM      | 1       | 49        | 16.63                 | 16.52                    | 16.55                  | 18                  |
| 20              | 64QAM      | 1       | 99        | 16.61                 | 16.51                    | 16.49                  |                     |
| 20              | 64QAM      | 50      | 0         | 16.78                 | 16.74                    | 16.71                  |                     |
| 20              | 64QAM      | 50      | 24        | 16.92                 | 16.90                    | 16.78                  |                     |
| 20              | 64QAM      | 50      | 50        | 16.81                 | 16.75                    | 16.71                  |                     |
| 20              | 64QAM      | 100     | 0         | 16.81                 | 16.77                    | 16.65                  | 18                  |
| Channel         |            |         |           | 37625                 | 38000                    | 38175                  |                     |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 | 18                  |
| 15              | QPSK       | 1       | 0         | 16.84                 | 16.84                    | 16.75                  |                     |
| 15              | QPSK       | 1       | 37        | 16.80                 | 16.77                    | 16.70                  | 18                  |
| 15              | QPSK       | 1       | 74        | 16.77                 | 16.72                    | 16.66                  |                     |
| 15              | QPSK       | 36      | 0         | 16.74                 | 16.73                    | 16.68                  |                     |
| 15              | QPSK       | 36      | 20        | 16.88                 | 16.86                    | 16.72                  |                     |
| 15              | QPSK       | 36      | 39        | 16.80                 | 16.74                    | 16.67                  |                     |
| 15              | QPSK       | 75      | 0         | 16.81                 | 16.78                    | 16.65                  | 18                  |
| 15              | 16QAM      | 1       | 0         | 16.97                 | 17.02                    | 16.97                  |                     |
| 15              | 16QAM      | 1       | 37        | 16.88                 | 16.90                    | 16.80                  |                     |
| 15              | 16QAM      | 1       | 74        | 16.95                 | 16.85                    | 16.79                  |                     |
| 15              | 16QAM      | 36      | 0         | 16.74                 | 16.70                    | 16.63                  |                     |
| 15              | 16QAM      | 36      | 20        | 16.86                 | 16.85                    | 16.70                  | 18                  |
| 15              | 16QAM      | 36      | 39        | 16.78                 | 16.74                    | 16.65                  |                     |
| 15              | 16QAM      | 75      | 0         | 16.85                 | 16.83                    | 16.68                  |                     |
| 15              | 64QAM      | 1       | 0         | 16.56                 | 16.53                    | 16.49                  |                     |
| 15              | 64QAM      | 1       | 37        | 16.59                 | 16.54                    | 16.54                  |                     |
| 15              | 64QAM      | 1       | 74        | 16.55                 | 16.49                    | 16.44                  | 18                  |
| 15              | 64QAM      | 36      | 0         | 16.80                 | 16.77                    | 16.72                  |                     |
| 15              | 64QAM      | 36      | 20        | 16.93                 | 16.90                    | 16.76                  |                     |
| 15              | 64QAM      | 36      | 39        | 16.83                 | 16.79                    | 16.72                  |                     |
| 15              | 64QAM      | 75      | 0         | 16.86                 | 16.85                    | 16.70                  |                     |
| Channel         |            |         |           | 37600                 | 38000                    | 38200                  | 18                  |
| Frequency (MHz) |            |         |           | 2575                  | 2595                     | 2615                   |                     |
| 10              | QPSK       | 1       | 0         | 16.85                 | 16.80                    | 16.84                  | 18                  |
| 10              | QPSK       | 1       | 25        | 16.78                 | 16.75                    | 16.70                  |                     |
| 10              | QPSK       | 1       | 49        | 16.75                 | 16.61                    | 16.52                  |                     |
| 10              | QPSK       | 25      | 0         | 16.68                 | 16.67                    | 16.58                  |                     |
| 10              | QPSK       | 25      | 12        | 16.89                 | 16.80                    | 16.62                  |                     |
| 10              | QPSK       | 25      | 25        | 16.73                 | 16.60                    | 16.62                  | 18                  |
| 10              | QPSK       | 50      | 0         | 16.72                 | 16.66                    | 16.59                  |                     |
| 10              | 16QAM      | 1       | 0         | 16.93                 | 16.95                    | 16.99                  |                     |
| 10              | 16QAM      | 1       | 25        | 16.86                 | 16.85                    | 16.81                  |                     |
| 10              | 16QAM      | 1       | 49        | 16.85                 | 16.81                    | 16.73                  |                     |
| 10              | 16QAM      | 25      | 0         | 16.68                 | 16.67                    | 16.70                  | 18                  |
| 10              | 16QAM      | 25      | 12        | 16.88                 | 16.84                    | 16.73                  |                     |
| 10              | 16QAM      | 25      | 25        | 16.72                 | 16.74                    | 16.66                  |                     |
| 10              | 16QAM      | 50      | 0         | 16.77                 | 16.66                    | 16.59                  |                     |
| 10              | 64QAM      | 1       | 0         | 16.53                 | 16.64                    | 16.53                  |                     |
| 10              | 64QAM      | 1       | 25        | 16.59                 | 16.50                    | 16.45                  | 18                  |
| 10              | 64QAM      | 1       | 49        | 16.53                 | 16.47                    | 16.45                  |                     |
| 10              | 64QAM      | 25      | 0         | 16.73                 | 16.64                    | 16.68                  |                     |
| 10              | 64QAM      | 25      | 12        | 16.85                 | 16.86                    | 16.74                  |                     |
| 10              | 64QAM      | 25      | 25        | 16.78                 | 16.73                    | 16.69                  |                     |
| 10              | 64QAM      | 50      | 0         | 16.72                 | 16.74                    | 16.63                  | 18                  |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  |                     |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 | 18                  |
| 5               | QPSK       | 1       | 0         | 16.40                 | 16.44                    | 16.51                  |                     |
| 5               | QPSK       | 1       | 12        | 16.53                 | 16.52                    | 16.42                  | 18                  |
| 5               | QPSK       | 1       | 24        | 16.46                 | 16.44                    | 16.33                  |                     |
| 5               | QPSK       | 12      | 0         | 16.62                 | 16.54                    | 16.45                  |                     |
| 5               | QPSK       | 12      | 7         | 16.66                 | 16.66                    | 16.56                  |                     |
| 5               | QPSK       | 12      | 13        | 16.64                 | 16.59                    | 16.51                  | 18                  |
| 5               | QPSK       | 25      | 0         | 16.81                 | 16.81                    | 16.51                  |                     |
| 5               | 16QAM      | 1       | 0         | 16.57                 | 16.56                    | 16.49                  |                     |
| 5               | 16QAM      | 1       | 12        | 16.74                 | 16.71                    | 16.64                  |                     |
| 5               | 16QAM      | 1       | 24        | 16.66                 | 16.65                    | 16.56                  |                     |
| 5               | 16QAM      | 12      | 0         | 16.61                 | 16.52                    | 16.43                  | 18                  |
| 5               | 16QAM      | 12      | 7         | 16.83                 | 16.80                    | 16.55                  |                     |
| 5               | 16QAM      | 12      | 13        | 16.61                 | 16.57                    | 16.47                  |                     |
| 5               | 16QAM      | 25      | 0         | 16.64                 | 16.63                    | 16.59                  |                     |
| 5               | 64QAM      | 1       | 0         | 16.24                 | 16.19                    | 16.12                  |                     |
| 5               | 64QAM      | 1       | 12        | 16.33                 | 16.27                    | 16.20                  | 18                  |
| 5               | 64QAM      | 1       | 24        | 16.37                 | 16.25                    | 16.17                  |                     |
| 5               | 64QAM      | 12      | 0         | 16.66                 | 16.59                    | 16.53                  |                     |
| 5               | 64QAM      | 12      | 7         | 16.72                 | 16.70                    | 16.64                  |                     |
| 5               | 64QAM      | 12      | 13        | 16.67                 | 16.66                    | 16.57                  |                     |
| 5               | 64QAM      | 25      | 0         | 16.70                 | 16.70                    | 16.60                  | 18                  |
| Channel         |            |         |           | 37700                 | 38000                    | 38100                  |                     |
| Frequency (MHz) |            |         |           | 2570                  | 2595                     | 2610                   | 18                  |
| 5               | QPSK       | 1       | 0         | 16.87                 | 16.85                    | 16.84                  |                     |
| 5               | QPSK       | 1       | 49        | 16.79                 | 16.76                    | 16.72                  | 18                  |
| 5               | QPSK       | 1       | 99        | 16.75                 | 16.65                    | 16.61                  |                     |
| 5               | QPSK       | 50      | 0         | 16.71                 | 16.71                    | 16.68                  |                     |
| 5               | QPSK       | 50      | 24        | 16.89                 | 16.87                    | 16.72                  |                     |
| 5               | QPSK       | 50      | 50        | 16.74                 | 16.70                    | 16.66                  | 18                  |
| 5               | QPSK       | 100     | 0         | 16.79                 | 16.74                    | 16.61                  |                     |
| 5               | 16QAM      | 1       | 0         | 17.02                 | 17.03                    | 17.04                  |                     |
| 5               | 16QAM      | 1       | 49        | 16.95                 | 16.91                    | 16.85                  |                     |
| 5               | 16QAM      | 1       | 99        | 16.90                 | 16.84                    | 16.83                  |                     |
| 5               | 16QAM      | 50      | 0         | 16.76                 | 16.72                    | 16.70                  | 18                  |
| 5               | 16QAM      | 50      | 24        | 16.94                 | 16.88                    | 16.76                  |                     |
| 5               | 16QAM      | 50      | 50        | 16.80                 | 16.76                    | 16.70                  |                     |
| 5               | 16QAM      | 100     | 0         | 16.82                 | 16.75                    | 16.64                  |                     |
| 5               | 64QAM      | 1       | 0         | 16.62                 | 16.64                    | 16.58                  |                     |
| 5               | 64QAM      | 1       | 49        | 16.63                 | 16.52                    | 16.55                  | 18                  |
| 5               | 64QAM      | 1       | 99        | 16.61                 | 16.51                    | 16.49                  |                     |
| 5               | 64QAM      | 50      | 0         | 16.78                 | 16.74                    | 16.71                  |                     |
| 5               | 64QAM      | 50      | 24        | 16.92                 | 16.90                    | 16.78                  |                     |
| 5               | 64QAM      | 50      | 50        | 16.81                 | 16.75                    | 16.71                  |                     |
| 5               | 64QAM      | 100     | 0         | 16.81                 | 16.77                    | 16.65                  | 18                  |
| Channel         |            |         |           | 37625                 | 38000                    | 38175                  |                     |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 | 18                  |
| 15              | QPSK       | 1       | 0         | 16.84                 | 16.84                    | 16.75                  |                     |
| 15              | QPSK       | 1       | 37        | 16.80                 | 16.77                    | 16.70                  | 18                  |
| 15              | QPSK       | 1       | 74        | 16.77                 | 16.72                    | 16.66                  |                     |
| 15              | QPSK       | 36      | 0         | 16.74                 | 16.73                    | 16.68                  |                     |
| 15              | QPSK       | 36      | 20        | 16.88                 | 16.86                    | 16.72                  |                     |
| 15              | QPSK       | 36      | 39        | 16.80                 | 16.74                    | 16.67                  |                     |
| 15              | QPSK       | 75      | 0         | 16.81                 | 16.78                    | 16.65                  | 18                  |
| 15              | 16QAM      | 1       | 0         | 16.97                 | 17.02                    | 16.97                  |                     |
| 15              | 16QAM      | 1       | 37        | 16.88                 | 16.90                    | 16.80                  |                     |
| 15              | 16QAM      | 1       | 74        | 16.95                 | 16.85                    | 16.79                  |                     |
| 15              | 16QAM      | 36      | 0         | 16.74                 | 16.70                    | 16.63                  |                     |
| 15              | 16QAM      | 36      | 20        | 16.86                 | 16.85                    | 16.70                  | 18                  |
| 15              | 16QAM      | 36      | 39        | 16.78                 | 16.74                    | 16.65                  |                     |
| 15              | 16QAM      | 75      | 0         | 16.85                 | 16.83                    | 16.68                  |                     |
| 15              | 64QAM      | 1       | 0         | 16.56                 | 16.53                    | 16.49                  |                     |
| 15              | 64QAM      | 1       | 37        | 16.59                 | 16.54                    | 16.54                  |                     |
| 15              | 64QAM      | 1       | 74        | 16.55                 | 16.49                    | 16.44                  | 18                  |
| 15              | 64QAM      | 36      | 0         | 16.80                 | 16.77                    | 16.72                  |                     |
| 15              | 64QAM      | 36      | 20        | 16.93                 | 16.90                    | 16.76                  |                     |
| 15              | 64QAM      | 36      | 39        | 16.83                 | 16.79                    | 16.72                  |                     |
| 15              | 64QAM      | 75      | 0         | 16.86                 | 16.85                    | 16.70                  |                     |
| Channel         |            |         |           | 37600                 | 38000                    | 38200                  | 18                  |
| Frequency (MHz) |            |         |           | 2575                  | 2595                     | 2615                   |                     |
| 10              | QPSK       | 1       | 0         | 16.85                 | 16.80                    | 16.84                  | 18                  |
| 10              | QPSK       | 1       | 25        | 16.78                 | 16.75                    | 16.70                  |                     |
| 10              | QPSK       | 1       | 49        | 16.75                 | 16.61                    | 16.52                  |                     |
| 10              | QPSK       | 25      | 0         | 16.68                 | 16.67                    | 16.58                  |                     |
| 10              | QPSK       | 25      | 12        | 16.89                 | 16.80                    | 16.62                  |                     |
| 10              | QPSK       | 25      | 25        | 16.73                 | 16.60                    | 16.62                  | 18                  |
| 10              | QPSK       | 50      | 0         | 16.72                 | 16.66                    | 16.59                  |                     |
| 10              | 16QAM      | 1       | 0         | 16.93                 | 16.95                    | 16.99                  |                     |
| 10              | 16QAM      | 1       | 25        | 16.86                 | 16.85                    | 16.81                  |                     |
| 10              | 16QAM      | 1       | 49        | 16.85                 | 16.81                    | 16.73                  |                     |
| 10              | 16QAM      | 25      | 0         | 16.68                 | 16.67                    | 16.70                  | 18                  |
| 10              | 16QAM      | 25      | 12        | 16.88                 | 16.84                    | 16.73                  |                     |
| 10              | 16QAM      | 25      | 25        | 16.72                 | 16.74                    | 16.66                  |                     |
| 10              | 16QAM      | 50      | 0         | 16.77                 | 16.66                    | 16.59                  |                     |
| 10              | 64QAM      | 1       | 0         | 16.53                 | 16.64                    | 16.53                  |                     |
| 10              | 64QAM      | 1       | 25        | 16.59                 | 16.50                    | 16.45                  | 18                  |
| 10              | 64QAM      | 1       | 49        | 16.53                 | 16.47                    | 16.45                  |                     |
| 10              | 64QAM      | 25      | 0         | 16.73                 | 16.64                    | 16.68                  |                     |
| 10              | 64QAM      | 25      | 12        | 16.85                 | 16.86                    | 16.74                  |                     |
| 10              | 64QAM      | 25      | 25        | 16.78                 | 16.73                    | 16.69                  |                     |
| 10              | 64QAM      | 50      | 0         | 16.72                 | 16.74                    | 16.63                  | 18                  |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  |                     |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 | 18                  |
| 5               | QPSK       | 1       |           |                       |                          |                        |                     |

| Band 41_Ant 0   |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2500                | 2543.5                     | 2587                   | 2630.5                      | 2674                 |                     |  |
| 20              | QPSK       | 1       | 0         | 16.94               | 16.83                      | 16.83                  | 16.58                       | 16.43                | 18                  |  |
| 20              | QPSK       | 1       | 49        | 16.85               | 16.83                      | 16.92                  | 16.81                       | 16.87                |                     |  |
| 20              | QPSK       | 1       | 99        | 16.85               | 16.88                      | 16.83                  | 16.40                       | 16.80                |                     |  |
| 20              | QPSK       | 50      | 0         | 17.03               | 16.88                      | 16.83                  | 16.80                       | 16.74                |                     |  |
| 20              | QPSK       | 50      | 24        | 17.01               | 16.97                      | 17.06                  | 16.87                       | 16.88                |                     |  |
| 20              | QPSK       | 50      | 50        | 16.97               | 16.95                      | 16.96                  | 16.79                       | 16.95                | 18                  |  |
| 20              | QPSK       | 100     | 0         | 16.89               | 16.85                      | 16.95                  | 16.75                       | 16.80                |                     |  |
| 20              | 16QAM      | 1       | 0         | 16.99               | 16.92                      | 16.85                  | 16.64                       | 16.54                |                     |  |
| 20              | 16QAM      | 1       | 49        | 16.92               | 16.87                      | 17.02                  | 16.90                       | 16.92                |                     |  |
| 20              | 16QAM      | 1       | 99        | 16.81               | 16.96                      | 16.72                  | 16.50                       | 16.85                |                     |  |
| 20              | 16QAM      | 50      | 0         | 17.00               | 16.87                      | 16.85                  | 16.84                       | 16.79                | 18                  |  |
| 20              | 16QAM      | 50      | 24        | 16.98               | 16.96                      | 17.06                  | 16.93                       | 16.92                |                     |  |
| 20              | 16QAM      | 50      | 50        | 16.86               | 16.97                      | 16.99                  | 16.84                       | 16.99                |                     |  |
| 20              | 16QAM      | 100     | 0         | 16.91               | 16.86                      | 16.95                  | 16.79                       | 16.86                |                     |  |
| 20              | 64QAM      | 1       | 0         | 16.92               | 16.58                      | 16.34                  | 16.58                       | 16.28                |                     |  |
| 20              | 64QAM      | 1       | 49        | 16.72               | 16.80                      | 16.85                  | 16.80                       | 16.73                | 18                  |  |
| 20              | 64QAM      | 1       | 99        | 16.78               | 16.99                      | 16.54                  | 16.36                       | 16.74                |                     |  |
| 20              | 64QAM      | 50      | 0         | 17.02               | 16.92                      | 16.87                  | 16.85                       | 16.80                |                     |  |
| 20              | 64QAM      | 50      | 24        | 16.99               | 17.00                      | 17.08                  | 16.91                       | 16.94                |                     |  |
| 20              | 64QAM      | 50      | 50        | 16.84               | 17.03                      | 17.01                  | 16.85                       | 17.02                |                     |  |
| 20              | 64QAM      | 100     | 0         | 16.93               | 16.99                      | 16.87                  | 16.82                       | 16.85                | 18                  |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                |                     |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 16.95               | 16.64                      | 16.66                  | 16.74                       | 16.58                | 18                  |  |
| 15              | QPSK       | 1       | 37        | 16.93               | 16.88                      | 16.89                  | 16.85                       | 16.79                |                     |  |
| 15              | QPSK       | 1       | 74        | 16.87               | 16.66                      | 16.80                  | 16.59                       | 16.79                |                     |  |
| 15              | QPSK       | 36      | 0         | 17.05               | 16.82                      | 16.87                  | 16.81                       | 16.76                |                     |  |
| 15              | QPSK       | 36      | 20        | 17.03               | 16.95                      | 17.01                  | 16.94                       | 16.96                |                     |  |
| 15              | QPSK       | 36      | 39        | 16.98               | 16.86                      | 16.99                  | 16.84                       | 16.94                | 18                  |  |
| 15              | QPSK       | 75      | 0         | 16.96               | 16.89                      | 16.97                  | 16.88                       | 16.82                |                     |  |
| 15              | 16QAM      | 1       | 0         | 16.98               | 16.74                      | 16.84                  | 16.82                       | 16.74                |                     |  |
| 15              | 16QAM      | 1       | 37        | 16.85               | 16.85                      | 17.00                  | 16.90                       | 17.00                |                     |  |
| 15              | 16QAM      | 1       | 74        | 16.95               | 16.73                      | 16.92                  | 16.71                       | 16.98                |                     |  |
| 15              | 16QAM      | 36      | 0         | 16.97               | 16.72                      | 16.81                  | 16.80                       | 16.73                | 18                  |  |
| 15              | 16QAM      | 36      | 20        | 16.97               | 16.87                      | 17.00                  | 16.90                       | 16.95                |                     |  |
| 15              | 16QAM      | 36      | 39        | 16.94               | 16.80                      | 16.95                  | 16.82                       | 16.95                |                     |  |
| 15              | 16QAM      | 75      | 0         | 16.96               | 16.89                      | 17.00                  | 16.91                       | 16.86                |                     |  |
| 15              | 64QAM      | 1       | 0         | 16.84               | 16.36                      | 16.54                  | 16.60                       | 16.47                |                     |  |
| 15              | 64QAM      | 1       | 37        | 16.75               | 16.87                      | 16.83                  | 16.76                       | 16.78                | 18                  |  |
| 15              | 64QAM      | 1       | 74        | 16.74               | 16.72                      | 16.72                  | 16.52                       | 16.80                |                     |  |
| 15              | 64QAM      | 36      | 0         | 17.01               | 16.84                      | 16.88                  | 16.86                       | 16.81                |                     |  |
| 15              | 64QAM      | 36      | 20        | 17.02               | 16.97                      | 17.07                  | 16.97                       | 17.02                |                     |  |
| 15              | 64QAM      | 36      | 39        | 16.88               | 16.90                      | 17.03                  | 16.86                       | 17.02                |                     |  |
| 15              | 64QAM      | 75      | 0         | 16.96               | 16.91                      | 16.99                  | 16.94                       | 16.86                | 18                  |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 16.86               | 16.61                      | 16.61                  | 16.66                       | 16.50                | 18                  |  |
| 10              | QPSK       | 1       | 25        | 16.80               | 16.85                      | 16.86                  | 16.80                       | 16.71                |                     |  |
| 10              | QPSK       | 1       | 49        | 16.85               | 16.64                      | 16.76                  | 16.53                       | 16.71                |                     |  |
| 10              | QPSK       | 25      | 0         | 16.96               | 16.82                      | 16.87                  | 16.79                       | 16.71                |                     |  |
| 10              | QPSK       | 25      | 12        | 16.98               | 16.90                      | 16.91                  | 16.88                       | 16.91                |                     |  |
| 10              | QPSK       | 25      | 25        | 16.91               | 16.80                      | 16.92                  | 16.77                       | 16.90                | 18                  |  |
| 10              | QPSK       | 50      | 0         | 16.86               | 16.81                      | 16.96                  | 16.78                       | 16.80                |                     |  |
| 10              | 16QAM      | 1       | 0         | 16.89               | 16.64                      | 16.80                  | 16.78                       | 16.64                |                     |  |
| 10              | 16QAM      | 1       | 25        | 16.79               | 16.76                      | 16.95                  | 16.88                       | 16.92                |                     |  |
| 10              | 16QAM      | 1       | 49        | 16.85               | 16.67                      | 16.86                  | 16.71                       | 16.92                |                     |  |
| 10              | 16QAM      | 25      | 0         | 16.94               | 16.66                      | 16.76                  | 16.72                       | 16.70                | 18                  |  |
| 10              | 16QAM      | 25      | 12        | 16.87               | 16.82                      | 16.92                  | 16.86                       | 16.91                |                     |  |
| 10              | 16QAM      | 25      | 25        | 16.86               | 16.76                      | 16.89                  | 16.75                       | 16.86                |                     |  |
| 10              | 16QAM      | 50      | 0         | 16.96               | 16.86                      | 16.96                  | 16.90                       | 16.80                |                     |  |
| 10              | 64QAM      | 1       | 0         | 16.84               | 16.35                      | 16.51                  | 16.59                       | 16.43                |                     |  |
| 10              | 64QAM      | 1       | 25        | 16.73               | 16.78                      | 16.73                  | 16.70                       | 16.71                | 18                  |  |
| 10              | 64QAM      | 1       | 49        | 16.70               | 16.67                      | 16.72                  | 16.43                       | 16.77                |                     |  |
| 10              | 64QAM      | 25      | 0         | 16.97               | 16.84                      | 16.86                  | 16.85                       | 16.78                |                     |  |
| 10              | 64QAM      | 25      | 12        | 16.96               | 16.86                      | 16.96                  | 16.90                       | 16.99                |                     |  |
| 10              | 64QAM      | 25      | 25        | 16.89               | 16.86                      | 16.95                  | 16.79                       | 16.93                |                     |  |
| 10              | 64QAM      | 50      | 0         | 16.96               | 16.82                      | 16.96                  | 16.88                       | 16.77                | 18                  |  |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41093                       | 41565                |                     |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.38                     | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 16.75               | 16.57                      | 16.65                  | 16.58                       | 16.71                | 18                  |  |
| 5               | QPSK       | 1       | 12        | 16.66               | 16.64                      | 16.72                  | 16.64                       | 16.71                |                     |  |
| 5               | QPSK       | 1       | 24        | 16.84               | 16.58                      | 16.67                  | 16.56                       | 16.65                |                     |  |
| 5               | QPSK       | 12      | 0         | 16.83               | 16.74                      | 16.75                  | 16.67                       | 16.77                |                     |  |
| 5               | QPSK       | 12      | 7         | 16.85               | 16.82                      | 16.82                  | 16.70                       | 16.77                |                     |  |
| 5               | QPSK       | 12      | 13        | 16.78               | 16.78                      | 16.82                  | 16.74                       | 16.76                | 18                  |  |
| 5               | QPSK       | 25      | 0         | 16.78               | 16.80                      | 16.81                  | 16.68                       | 16.75                |                     |  |
| 5               | 16QAM      | 1       | 0         | 16.89               | 16.71                      | 16.80                  | 16.71                       | 16.79                |                     |  |
| 5               | 16QAM      | 1       | 12        | 16.85               | 16.68                      | 16.88                  | 16.86                       | 16.83                |                     |  |
| 5               | 16QAM      | 1       | 24        | 16.88               | 16.79                      | 16.85                  | 16.75                       | 16.85                |                     |  |
| 5               | 16QAM      | 12      | 0         | 16.80               | 16.71                      | 16.76                  | 16.67                       | 16.76                | 18                  |  |
| 5               | 16QAM      | 12      | 7         | 16.79               | 16.78                      | 16.85                  | 16.67                       | 16.80                |                     |  |
| 5               | 16QAM      | 12      | 13        | 16.78               | 16.77                      | 16.82                  | 16.71                       | 16.73                |                     |  |
| 5               | 16QAM      | 25      | 0         | 16.83               | 16.79                      | 16.83                  | 16.71                       | 16.78                |                     |  |
| 5               | 64QAM      | 1       | 0         | 16.67               | 16.39                      | 16.60                  | 16.64                       | 16.60                |                     |  |
| 5               | 64QAM      | 1       | 12        | 16.57               | 16.77                      | 16.67                  | 16.68                       | 16.66                | 18                  |  |
| 5               | 64QAM      | 1       | 24        | 16.59               | 16.75                      | 16.69                  | 16.66                       | 16.64                |                     |  |
| 5               | 64QAM      | 12      | 0         | 16.84               | 16.78                      | 16.83                  | 16.77                       | 16.83                |                     |  |
| 5               | 64QAM      | 12      | 7         | 16.85               | 16.89                      | 16.90                  | 16.74                       | 16.84                |                     |  |
| 5               | 64QAM      | 12      | 13        | 16.81               | 16.85                      | 16.85                  | 16.79                       | 16.81                |                     |  |
| 5               | 64QAM      | 25      | 0         | 16.83               | 16.86                      | 16.91                  | 16.75                       | 16.84                | 18                  |  |



| Band 41_Ant 0   |            |         |           |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2500                | 2543.3                     | 2587                   | 2630.5                      | 2674                 |                     |
| 20              | QPSK       | 1       | 0         | 16.83               | 16.72                      | 16.42                  | 16.44                       | 16.31                | 18                  |
| 20              | QPSK       | 1       | 49        | 16.77               | 16.70                      | 16.79                  | 16.66                       | 16.69                |                     |
| 20              | QPSK       | 1       | 99        | 16.74               | 16.76                      | 16.49                  | 16.30                       | 16.64                |                     |
| 20              | QPSK       | 50      | 0         | 16.99               | 16.85                      | 16.80                  | 16.76                       | 16.70                |                     |
| 20              | QPSK       | 50      | 24        | 16.88               | 16.84                      | 17.04                  | 16.84                       | 16.85                |                     |
| 20              | QPSK       | 50      | 50        | 16.94               | 16.92                      | 16.93                  | 16.76                       | 16.92                | 18                  |
| 20              | QPSK       | 100     | 0         | 16.89               | 16.79                      | 16.91                  | 16.71                       | 16.77                |                     |
| 20              | 16QAM      | 1       | 0         | 17.17               | 17.01                      | 16.77                  | 16.84                       | 16.67                |                     |
| 20              | 16QAM      | 1       | 49        | 17.07               | 17.01                      | 17.20                  | 17.02                       | 17.10                |                     |
| 20              | 16QAM      | 1       | 99        | 17.10               | 17.06                      | 16.86                  | 16.61                       | 17.04                |                     |
| 20              | 16QAM      | 50      | 0         | 17.01               | 16.85                      | 16.84                  | 16.81                       | 16.73                | 18                  |
| 20              | 16QAM      | 50      | 24        | 16.97               | 16.95                      | 17.06                  | 16.89                       | 16.89                |                     |
| 20              | 16QAM      | 50      | 50        | 16.88               | 16.86                      | 16.96                  | 16.82                       | 16.97                |                     |
| 20              | 16QAM      | 100     | 0         | 16.88               | 16.83                      | 16.94                  | 16.77                       | 16.80                |                     |
| 20              | 64QAM      | 1       | 0         | 17.11               | 16.85                      | 16.60                  | 16.73                       | 16.49                |                     |
| 20              | 64QAM      | 1       | 49        | 16.95               | 17.03                      | 17.10                  | 17.01                       | 16.98                | 18                  |
| 20              | 64QAM      | 1       | 99        | 16.99               | 17.18                      | 16.80                  | 16.57                       | 16.94                |                     |
| 20              | 64QAM      | 50      | 0         | 17.01               | 16.91                      | 16.85                  | 16.83                       | 16.76                |                     |
| 20              | 64QAM      | 50      | 24        | 16.98               | 17.01                      | 17.04                  | 16.90                       | 16.92                |                     |
| 20              | 64QAM      | 50      | 50        | 16.92               | 17.01                      | 16.98                  | 16.83                       | 16.97                |                     |
| 20              | 64QAM      | 100     | 0         | 16.91               | 16.89                      | 16.93                  | 16.79                       | 16.83                |                     |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41058                       | 41515                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |
| 15              | QPSK       | 1       | 0         | 16.87               | 16.60                      | 16.62                  | 16.61                       | 16.48                | 18                  |
| 15              | QPSK       | 1       | 37        | 16.86               | 16.81                      | 16.62                  | 16.75                       | 16.74                |                     |
| 15              | QPSK       | 1       | 74        | 16.84               | 16.58                      | 16.67                  | 16.52                       | 16.72                |                     |
| 15              | QPSK       | 36      | 0         | 16.99               | 16.78                      | 16.85                  | 16.80                       | 16.72                |                     |
| 15              | QPSK       | 36      | 20        | 16.87               | 16.91                      | 17.00                  | 16.87                       | 16.95                |                     |
| 15              | QPSK       | 36      | 39        | 16.92               | 16.85                      | 16.97                  | 16.81                       | 16.93                | 18                  |
| 15              | QPSK       | 75      | 0         | 16.92               | 16.87                      | 16.96                  | 16.86                       | 16.80                |                     |
| 15              | 16QAM      | 1       | 0         | 17.18               | 16.99                      | 16.92                  | 16.97                       | 16.98                |                     |
| 15              | 16QAM      | 1       | 37        | 17.12               | 17.00                      | 17.17                  | 17.07                       | 17.17                |                     |
| 15              | 16QAM      | 1       | 74        | 17.08               | 16.83                      | 17.05                  | 16.81                       | 17.14                |                     |
| 15              | 16QAM      | 36      | 0         | 16.94               | 16.71                      | 16.82                  | 16.79                       | 16.76                | 18                  |
| 15              | 16QAM      | 36      | 20        | 16.94               | 16.95                      | 16.97                  | 16.90                       | 16.92                |                     |
| 15              | 16QAM      | 36      | 39        | 16.95               | 16.77                      | 16.95                  | 16.90                       | 16.91                |                     |
| 15              | 16QAM      | 75      | 0         | 16.92               | 16.84                      | 16.96                  | 16.88                       | 16.80                |                     |
| 15              | 64QAM      | 1       | 0         | 17.06               | 16.64                      | 16.75                  | 16.82                       | 16.66                |                     |
| 15              | 64QAM      | 1       | 37        | 17.01               | 17.15                      | 17.07                  | 16.97                       | 16.99                | 18                  |
| 15              | 64QAM      | 1       | 74        | 16.95               | 16.92                      | 16.91                  | 16.73                       | 17.01                |                     |
| 15              | 64QAM      | 36      | 0         | 17.03               | 16.94                      | 16.87                  | 16.84                       | 16.79                |                     |
| 15              | 64QAM      | 36      | 20        | 16.99               | 16.95                      | 17.05                  | 16.95                       | 16.96                |                     |
| 15              | 64QAM      | 36      | 39        | 17.00               | 16.89                      | 16.98                  | 16.85                       | 16.97                |                     |
| 15              | 64QAM      | 75      | 0         | 16.94               | 16.89                      | 16.98                  | 16.90                       | 16.83                |                     |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41060                       | 41540                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2638                        | 2685                 |                     |
| 10              | QPSK       | 1       | 0         | 16.80               | 16.67                      | 16.37                  | 16.34                       | 16.27                | 18                  |
| 10              | QPSK       | 1       | 25        | 16.73               | 16.62                      | 16.77                  | 16.58                       | 16.59                |                     |
| 10              | QPSK       | 1       | 49        | 16.69               | 16.69                      | 16.44                  | 16.25                       | 16.58                |                     |
| 10              | QPSK       | 25      | 0         | 16.94               | 16.80                      | 16.75                  | 16.75                       | 16.70                |                     |
| 10              | QPSK       | 25      | 12        | 16.90               | 16.85                      | 16.95                  | 16.81                       | 16.81                |                     |
| 10              | QPSK       | 25      | 25        | 16.87               | 16.83                      | 16.87                  | 16.75                       | 16.82                | 18                  |
| 10              | QPSK       | 50      | 0         | 16.84               | 16.74                      | 16.90                  | 16.61                       | 16.72                |                     |
| 10              | 16QAM      | 1       | 0         | 17.10               | 17.00                      | 16.69                  | 16.81                       | 16.58                |                     |
| 10              | 16QAM      | 1       | 25        | 17.02               | 17.01                      | 17.17                  | 16.93                       | 17.03                |                     |
| 10              | 16QAM      | 1       | 49        | 17.08               | 17.02                      | 16.83                  | 16.52                       | 17.01                |                     |
| 10              | 16QAM      | 25      | 0         | 16.99               | 16.85                      | 16.78                  | 16.73                       | 16.67                | 18                  |
| 10              | 16QAM      | 25      | 12        | 16.93               | 16.89                      | 16.97                  | 16.79                       | 16.79                |                     |
| 10              | 16QAM      | 25      | 25        | 16.96               | 16.94                      | 16.96                  | 16.74                       | 16.90                |                     |
| 10              | 16QAM      | 50      | 0         | 16.76               | 16.77                      | 16.80                  | 16.73                       | 16.71                |                     |
| 10              | 64QAM      | 1       | 0         | 17.07               | 16.81                      | 16.59                  | 16.64                       | 16.44                |                     |
| 10              | 64QAM      | 1       | 25        | 16.91               | 16.93                      | 17.02                  | 16.98                       | 16.93                | 18                  |
| 10              | 64QAM      | 1       | 49        | 16.92               | 17.14                      | 16.79                  | 16.53                       | 16.90                |                     |
| 10              | 64QAM      | 25      | 0         | 16.98               | 16.90                      | 16.80                  | 16.76                       | 16.76                |                     |
| 10              | 64QAM      | 25      | 12        | 16.94               | 17.01                      | 16.94                  | 16.85                       | 16.89                |                     |
| 10              | 64QAM      | 25      | 25        | 16.89               | 16.94                      | 16.90                  | 16.75                       | 16.88                |                     |
| 10              | 64QAM      | 50      | 0         | 16.82               | 16.81                      | 16.91                  | 16.79                       | 16.81                |                     |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41063                       | 41565                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.38                     | 2687.5               |                     |
| 5               | QPSK       | 1       | 0         | 16.66               | 16.46                      | 16.59                  | 16.49                       | 16.58                | 18                  |
| 5               | QPSK       | 1       | 12        | 16.59               | 16.57                      | 16.64                  | 16.55                       | 16.60                |                     |
| 5               | QPSK       | 1       | 24        | 16.61               | 16.50                      | 16.61                  | 16.50                       | 16.55                |                     |
| 5               | QPSK       | 12      | 0         | 16.82               | 16.70                      | 16.75                  | 16.65                       | 16.77                |                     |
| 5               | QPSK       | 12      | 7         | 16.85               | 16.78                      | 16.85                  | 16.68                       | 16.78                |                     |
| 5               | QPSK       | 12      | 13        | 16.79               | 16.77                      | 16.77                  | 16.69                       | 16.72                | 18                  |
| 5               | QPSK       | 25      | 0         | 16.76               | 16.76                      | 16.80                  | 16.65                       | 16.73                |                     |
| 5               | 16QAM      | 1       | 0         | 16.94               | 16.89                      | 16.88                  | 16.79                       | 16.84                |                     |
| 5               | 16QAM      | 1       | 12        | 16.91               | 16.91                      | 16.89                  | 16.86                       | 16.85                |                     |
| 5               | 16QAM      | 1       | 24        | 16.93               | 16.94                      | 16.90                  | 16.84                       | 16.79                |                     |
| 5               | 16QAM      | 12      | 0         | 16.82               | 16.74                      | 16.81                  | 16.73                       | 16.81                | 18                  |
| 5               | 16QAM      | 12      | 7         | 16.87               | 16.85                      | 16.88                  | 16.71                       | 16.80                |                     |
| 5               | 16QAM      | 12      | 13        | 16.80               | 16.81                      | 16.82                  | 16.77                       | 16.79                |                     |
| 5               | 16QAM      | 25      | 0         | 16.82               | 16.81                      | 16.86                  | 16.69                       | 16.79                |                     |
| 5               | 64QAM      | 1       | 0         | 16.87               | 16.75                      | 16.82                  | 16.71                       | 16.79                |                     |
| 5               | 64QAM      | 1       | 12        | 16.85               | 16.87                      | 16.86                  | 16.79                       | 16.82                | 18                  |
| 5               | 64QAM      | 1       | 24        | 16.85               | 16.84                      | 16.87                  | 16.80                       | 16.78                |                     |
| 5               | 64QAM      | 12      | 0         | 16.87               | 16.77                      | 16.81                  | 16.75                       | 16.84                |                     |
| 5               | 64QAM      | 12      | 7         | 16.86               | 16.87                      | 16.93                  | 16.76                       | 16.85                |                     |
| 5               | 64QAM      | 12      | 13        | 16.83               | 16.86                      | 16.88                  | 16.81                       | 16.81                |                     |
| 5               | 64QAM      | 25      | 0         | 16.81               | 16.85                      | 16.90                  | 16.73                       | 16.81                |                     |





| Band 38_Ant 0   |            |         |           |                      |                         |                       |                     |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Middle Ch / Freq. | Power High Ch / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 37650                | 38000                   | 38150                 |                     |
| Frequency (MHz) |            |         |           | 2568                 | 2595                    | 2610                  |                     |
| 20              | QPSK       | 1       | 0         | 20.21                | 20.20                   | 20.13                 | 21.5                |
| 20              | QPSK       | 1       | 49        | 20.28                | 20.23                   | 20.17                 |                     |
| 20              | QPSK       | 1       | 99        | 20.26                | 20.23                   | 20.17                 |                     |
| 20              | QPSK       | 50      | 0         | 20.12                | 20.10                   | 20.02                 |                     |
| 20              | QPSK       | 50      | 24        | 20.29                | 20.29                   | 20.13                 |                     |
| 20              | QPSK       | 50      | 50        | 20.23                | 20.19                   | 20.12                 | 21.5                |
| 20              | QPSK       | 100     | 0         | 20.21                | 20.19                   | 20.03                 |                     |
| 20              | 16QAM      | 1       | 0         | 20.34                | 20.34                   | 20.24                 |                     |
| 20              | 16QAM      | 1       | 49        | 20.39                | 20.31                   | 20.22                 |                     |
| 20              | 16QAM      | 1       | 99        | 20.42                | 20.31                   | 20.26                 |                     |
| 20              | 16QAM      | 50      | 0         | 20.15                | 20.11                   | 20.05                 | 21.5                |
| 20              | 16QAM      | 50      | 24        | 20.34                | 20.30                   | 20.14                 |                     |
| 20              | 16QAM      | 50      | 50        | 20.26                | 20.19                   | 20.13                 |                     |
| 20              | 16QAM      | 100     | 0         | 20.21                | 20.19                   | 20.05                 |                     |
| 20              | 64QAM      | 1       | 0         | 20.08                | 20.10                   | 20.00                 |                     |
| 20              | 64QAM      | 1       | 49        | 20.16                | 20.07                   | 20.06                 | 21.5                |
| 20              | 64QAM      | 1       | 99        | 20.21                | 20.13                   | 20.08                 |                     |
| 20              | 64QAM      | 50      | 0         | 20.15                | 20.12                   | 20.05                 |                     |
| 20              | 64QAM      | 50      | 24        | 20.35                | 20.30                   | 20.16                 |                     |
| 20              | 64QAM      | 50      | 50        | 20.26                | 20.22                   | 20.16                 |                     |
| 20              | 64QAM      | 100     | 0         | 20.24                | 20.18                   | 20.07                 |                     |
| Channel         |            |         |           | 37625                | 38000                   | 38175                 |                     |
| Frequency (MHz) |            |         |           | 2577.5               | 2595                    | 2612.5                |                     |
| 15              | QPSK       | 1       | 0         | 20.21                | 20.15                   | 20.10                 | 21.5                |
| 15              | QPSK       | 1       | 37        | 20.21                | 20.16                   | 20.10                 |                     |
| 15              | QPSK       | 1       | 74        | 20.21                | 20.16                   | 20.11                 |                     |
| 15              | QPSK       | 36      | 0         | 20.19                | 20.14                   | 20.06                 |                     |
| 15              | QPSK       | 36      | 20        | 20.32                | 20.31                   | 20.15                 |                     |
| 15              | QPSK       | 36      | 39        | 20.25                | 20.21                   | 20.15                 | 21.5                |
| 15              | QPSK       | 75      | 0         | 20.26                | 20.22                   | 20.08                 |                     |
| 15              | 16QAM      | 1       | 0         | 20.32                | 20.30                   | 20.25                 |                     |
| 15              | 16QAM      | 1       | 37        | 20.27                | 20.24                   | 20.24                 |                     |
| 15              | 16QAM      | 1       | 74        | 20.41                | 20.30                   | 20.28                 |                     |
| 15              | 16QAM      | 36      | 0         | 20.12                | 20.08                   | 20.00                 | 21.5                |
| 15              | 16QAM      | 36      | 20        | 20.30                | 20.25                   | 20.11                 |                     |
| 15              | 16QAM      | 36      | 39        | 20.23                | 20.19                   | 20.11                 |                     |
| 15              | 16QAM      | 75      | 0         | 20.28                | 20.22                   | 20.08                 |                     |
| 15              | 64QAM      | 1       | 0         | 20.00                | 19.99                   | 19.98                 |                     |
| 15              | 64QAM      | 1       | 37        | 20.11                | 20.06                   | 20.04                 | 21.5                |
| 15              | 64QAM      | 1       | 74        | 20.20                | 20.10                   | 20.03                 |                     |
| 15              | 64QAM      | 36      | 0         | 20.19                | 20.16                   | 20.08                 |                     |
| 15              | 64QAM      | 36      | 20        | 20.35                | 20.32                   | 20.16                 |                     |
| 15              | 64QAM      | 36      | 39        | 20.26                | 20.23                   | 20.17                 |                     |
| 15              | 64QAM      | 75      | 0         | 20.28                | 20.22                   | 20.08                 |                     |
| Channel         |            |         |           | 37600                | 38000                   | 38200                 |                     |
| Frequency (MHz) |            |         |           | 2575                 | 2595                    | 2615                  |                     |
| 10              | QPSK       | 1       | 0         | 20.12                | 20.10                   | 20.03                 | 21.5                |
| 10              | QPSK       | 1       | 25        | 20.11                | 20.14                   | 20.07                 |                     |
| 10              | QPSK       | 1       | 49        | 20.11                | 20.14                   | 20.08                 |                     |
| 10              | QPSK       | 25      | 0         | 20.14                | 20.08                   | 20.04                 |                     |
| 10              | QPSK       | 25      | 12        | 20.23                | 20.30                   | 20.05                 |                     |
| 10              | QPSK       | 25      | 25        | 20.15                | 20.14                   | 20.08                 | 21.5                |
| 10              | QPSK       | 50      | 0         | 20.18                | 20.14                   | 20.08                 |                     |
| 10              | 16QAM      | 1       | 0         | 20.30                | 20.20                   | 20.18                 |                     |
| 10              | 16QAM      | 1       | 25        | 20.24                | 20.15                   | 20.19                 |                     |
| 10              | 16QAM      | 1       | 49        | 20.41                | 20.25                   | 20.27                 |                     |
| 10              | 16QAM      | 25      | 0         | 20.07                | 20.03                   | 19.96                 | 21.5                |
| 10              | 16QAM      | 25      | 12        | 20.21                | 20.21                   | 20.09                 |                     |
| 10              | 16QAM      | 25      | 25        | 20.15                | 20.17                   | 20.06                 |                     |
| 10              | 16QAM      | 50      | 0         | 20.24                | 20.16                   | 20.03                 |                     |
| 10              | 64QAM      | 1       | 0         | 19.90                | 19.97                   | 19.88                 |                     |
| 10              | 64QAM      | 1       | 25        | 20.08                | 20.02                   | 19.95                 | 21.5                |
| 10              | 64QAM      | 1       | 49        | 20.12                | 20.01                   | 19.97                 |                     |
| 10              | 64QAM      | 25      | 0         | 20.12                | 20.15                   | 20.07                 |                     |
| 10              | 64QAM      | 25      | 12        | 20.32                | 20.28                   | 20.07                 |                     |
| 10              | 64QAM      | 25      | 25        | 20.20                | 20.14                   | 20.09                 |                     |
| 10              | 64QAM      | 50      | 0         | 20.27                | 20.19                   | 20.07                 |                     |
| Channel         |            |         |           | 37775                | 38000                   | 38225                 |                     |
| Frequency (MHz) |            |         |           | 2572.5               | 2595                    | 2617.5                |                     |
| 5               | QPSK       | 1       | 0         | 19.87                | 19.87                   | 19.82                 | 21.5                |
| 5               | QPSK       | 1       | 12        | 19.97                | 19.97                   | 19.91                 |                     |
| 5               | QPSK       | 1       | 24        | 19.96                | 19.95                   | 19.84                 |                     |
| 5               | QPSK       | 12      | 0         | 20.07                | 19.99                   | 19.91                 |                     |
| 5               | QPSK       | 12      | 7         | 20.13                | 20.10                   | 20.04                 |                     |
| 5               | QPSK       | 12      | 13        | 20.13                | 20.10                   | 19.99                 | 21.5                |
| 5               | QPSK       | 25      | 0         | 20.07                | 20.06                   | 19.98                 |                     |
| 5               | 16QAM      | 1       | 0         | 20.00                | 20.03                   | 19.97                 |                     |
| 5               | 16QAM      | 1       | 12        | 20.13                | 20.17                   | 20.13                 |                     |
| 5               | 16QAM      | 1       | 24        | 20.08                | 20.15                   | 20.10                 |                     |
| 5               | 16QAM      | 12      | 0         | 20.05                | 19.98                   | 19.92                 | 21.5                |
| 5               | 16QAM      | 12      | 7         | 20.08                | 20.11                   | 20.03                 |                     |
| 5               | 16QAM      | 12      | 13        | 20.07                | 20.08                   | 19.99                 |                     |
| 5               | 16QAM      | 25      | 0         | 20.09                | 20.11                   | 20.06                 |                     |
| 5               | 64QAM      | 1       | 0         | 19.85                | 19.70                   | 19.69                 |                     |
| 5               | 64QAM      | 1       | 12        | 19.90                | 19.86                   | 19.82                 | 21.5                |
| 5               | 64QAM      | 1       | 24        | 19.90                | 19.86                   | 19.84                 |                     |
| 5               | 64QAM      | 12      | 0         | 20.11                | 20.00                   | 19.93                 |                     |
| 5               | 64QAM      | 12      | 7         | 20.15                | 20.14                   | 20.06                 |                     |
| 5               | 64QAM      | 12      | 13        | 20.15                | 20.09                   | 20.05                 |                     |
| 5               | 64QAM      | 25      | 0         | 20.15                | 20.13                   | 20.03                 |                     |



# 4G TDD Body\_Ant 0\_Table 4

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| Band 41_Ant 0   |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2566                | 2543.5                     | 2520                   | 2536.5                      | 2560                 |                     |  |
| 20              | QPSK       | 1       | 0         | 21.35               | 21.29                      | 20.95                  | 20.99                       | 20.84                | 22                  |  |
| 20              | QPSK       | 1       | 49        | 21.36               | 21.33                      | 21.37                  | 21.25                       | 21.28                |                     |  |
| 20              | QPSK       | 1       | 99        | 21.31               | 21.31                      | 21.09                  | 20.88                       | 21.19                |                     |  |
| 20              | QPSK       | 50      | 0         | 21.43               | 21.29                      | 21.26                  | 21.21                       | 21.14                |                     |  |
| 20              | QPSK       | 50      | 24        | 21.44               | 21.38                      | 21.47                  | 21.28                       | 21.34                |                     |  |
| 20              | QPSK       | 50      | 50        | 21.36               | 21.36                      | 21.40                  | 21.22                       | 21.33                | 22                  |  |
| 20              | QPSK       | 100     | 0         | 21.34               | 21.27                      | 21.38                  | 21.18                       | 21.22                |                     |  |
| 20              | 16QAM      | 1       | 0         | 21.64               | 21.50                      | 21.11                  | 21.15                       | 21.00                |                     |  |
| 20              | 16QAM      | 1       | 49        | 21.40               | 21.41                      | 21.49                  | 21.41                       | 21.39                |                     |  |
| 20              | 16QAM      | 1       | 99        | 21.44               | 21.49                      | 21.24                  | 20.96                       | 21.33                |                     |  |
| 20              | 16QAM      | 50      | 0         | 21.43               | 21.35                      | 21.30                  | 21.26                       | 21.19                | 22                  |  |
| 20              | 16QAM      | 50      | 24        | 21.43               | 21.45                      | 21.51                  | 21.33                       | 21.35                |                     |  |
| 20              | 16QAM      | 50      | 50        | 21.37               | 21.43                      | 21.44                  | 21.27                       | 21.42                |                     |  |
| 20              | 16QAM      | 100     | 0         | 21.34               | 21.33                      | 21.42                  | 21.23                       | 21.27                |                     |  |
| 20              | 64QAM      | 1       | 0         | 21.28               | 21.23                      | 20.75                  | 20.86                       | 20.64                |                     |  |
| 20              | 64QAM      | 1       | 49        | 21.19               | 21.09                      | 21.21                  | 21.11                       | 21.12                | 22                  |  |
| 20              | 64QAM      | 1       | 99        | 21.25               | 21.20                      | 20.94                  | 20.72                       | 21.08                |                     |  |
| 20              | 64QAM      | 50      | 0         | 20.97               | 20.81                      | 20.78                  | 20.74                       | 20.67                |                     |  |
| 20              | 64QAM      | 50      | 24        | 20.95               | 20.82                      | 20.98                  | 20.82                       | 20.84                |                     |  |
| 20              | 64QAM      | 50      | 50        | 20.82               | 20.90                      | 20.92                  | 20.75                       | 20.90                |                     |  |
| 20              | 64QAM      | 100     | 0         | 20.90               | 20.83                      | 20.89                  | 20.71                       | 20.75                | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                |                     |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 21.38               | 21.02                      | 21.13                  | 21.08                       | 20.95                | 22                  |  |
| 15              | QPSK       | 1       | 37        | 21.33               | 21.24                      | 21.32                  | 21.23                       | 21.26                |                     |  |
| 15              | QPSK       | 1       | 74        | 21.32               | 21.04                      | 21.21                  | 20.99                       | 21.23                |                     |  |
| 15              | QPSK       | 36      | 0         | 21.44               | 21.24                      | 21.28                  | 21.23                       | 21.18                |                     |  |
| 15              | QPSK       | 36      | 20        | 21.42               | 21.40                      | 21.45                  | 21.33                       | 21.38                |                     |  |
| 15              | QPSK       | 36      | 39        | 21.40               | 21.30                      | 21.41                  | 21.26                       | 21.36                | 22                  |  |
| 15              | QPSK       | 75      | 0         | 21.39               | 21.32                      | 21.42                  | 21.30                       | 21.25                |                     |  |
| 15              | 16QAM      | 1       | 0         | 21.51               | 21.29                      | 21.28                  | 21.29                       | 21.14                |                     |  |
| 15              | 16QAM      | 1       | 37        | 21.40               | 21.41                      | 21.44                  | 21.41                       | 21.40                |                     |  |
| 15              | 16QAM      | 1       | 74        | 21.47               | 21.28                      | 21.38                  | 21.22                       | 21.39                |                     |  |
| 15              | 16QAM      | 36      | 0         | 21.40               | 21.24                      | 21.29                  | 21.23                       | 21.16                | 22                  |  |
| 15              | 16QAM      | 36      | 20        | 21.40               | 21.40                      | 21.45                  | 21.35                       | 21.37                |                     |  |
| 15              | 16QAM      | 36      | 39        | 21.38               | 21.32                      | 21.42                  | 21.25                       | 21.38                |                     |  |
| 15              | 16QAM      | 75      | 0         | 21.40               | 21.39                      | 21.44                  | 21.32                       | 21.28                |                     |  |
| 15              | 64QAM      | 1       | 0         | 21.25               | 20.94                      | 20.91                  | 21.01                       | 20.82                |                     |  |
| 15              | 64QAM      | 1       | 37        | 21.16               | 21.16                      | 21.23                  | 21.16                       | 21.17                | 22                  |  |
| 15              | 64QAM      | 1       | 74        | 21.23               | 21.03                      | 21.11                  | 20.94                       | 21.18                |                     |  |
| 15              | 64QAM      | 36      | 0         | 20.96               | 20.78                      | 20.81                  | 20.75                       | 20.71                |                     |  |
| 15              | 64QAM      | 36      | 20        | 20.97               | 20.84                      | 20.98                  | 20.87                       | 20.91                |                     |  |
| 15              | 64QAM      | 36      | 39        | 20.92               | 20.84                      | 20.93                  | 20.77                       | 20.91                |                     |  |
| 15              | 64QAM      | 75      | 0         | 20.92               | 20.84                      | 20.93                  | 20.82                       | 20.76                | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 21.36               | 20.99                      | 21.06                  | 21.02                       | 20.87                | 22                  |  |
| 10              | QPSK       | 1       | 25        | 21.28               | 21.23                      | 21.32                  | 21.13                       | 21.26                |                     |  |
| 10              | QPSK       | 1       | 49        | 21.24               | 20.84                      | 21.19                  | 20.98                       | 21.23                |                     |  |
| 10              | QPSK       | 25      | 0         | 21.34               | 21.22                      | 21.24                  | 21.16                       | 21.17                |                     |  |
| 10              | QPSK       | 25      | 12        | 21.33               | 21.32                      | 21.45                  | 21.29                       | 21.29                |                     |  |
| 10              | QPSK       | 25      | 25        | 21.40               | 21.25                      | 21.41                  | 21.24                       | 21.31                | 22                  |  |
| 10              | QPSK       | 50      | 0         | 21.38               | 21.25                      | 21.35                  | 21.23                       | 21.16                |                     |  |
| 10              | 16QAM      | 1       | 0         | 21.45               | 21.19                      | 21.22                  | 21.29                       | 21.07                |                     |  |
| 10              | 16QAM      | 1       | 25        | 21.38               | 21.31                      | 21.44                  | 21.40                       | 21.38                |                     |  |
| 10              | 16QAM      | 1       | 49        | 21.43               | 21.18                      | 21.29                  | 21.17                       | 21.32                |                     |  |
| 10              | 16QAM      | 25      | 0         | 21.39               | 21.21                      | 21.28                  | 21.14                       | 21.09                | 22                  |  |
| 10              | 16QAM      | 25      | 12        | 21.30               | 21.39                      | 21.36                  | 21.34                       | 21.32                |                     |  |
| 10              | 16QAM      | 25      | 25        | 21.28               | 21.23                      | 21.35                  | 21.15                       | 21.36                |                     |  |
| 10              | 16QAM      | 50      | 0         | 21.35               | 21.33                      | 21.41                  | 21.31                       | 21.18                |                     |  |
| 10              | 64QAM      | 1       | 0         | 21.22               | 20.82                      | 20.81                  | 20.93                       | 20.76                |                     |  |
| 10              | 64QAM      | 1       | 25        | 21.13               | 21.15                      | 21.18                  | 21.11                       | 21.08                | 22                  |  |
| 10              | 64QAM      | 1       | 49        | 21.13               | 20.93                      | 21.04                  | 20.91                       | 21.14                |                     |  |
| 10              | 64QAM      | 25      | 0         | 20.88               | 20.88                      | 20.74                  | 20.75                       | 20.68                |                     |  |
| 10              | 64QAM      | 25      | 12        | 20.87               | 20.88                      | 20.95                  | 20.85                       | 20.81                |                     |  |
| 10              | 64QAM      | 25      | 25        | 20.82               | 20.78                      | 20.84                  | 20.72                       | 20.91                |                     |  |
| 10              | 64QAM      | 50      | 0         | 20.84               | 20.74                      | 20.83                  | 20.78                       | 20.74                | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                |                     |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.3                     | 2593                   | 2640.3                      | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 21.20               | 21.11                      | 21.11                  | 21.03                       | 21.16                | 22                  |  |
| 5               | QPSK       | 1       | 12        | 21.14               | 21.10                      | 21.16                  | 21.05                       | 21.18                |                     |  |
| 5               | QPSK       | 1       | 24        | 21.15               | 21.13                      | 21.14                  | 21.03                       | 21.10                |                     |  |
| 5               | QPSK       | 12      | 0         | 21.27               | 21.18                      | 21.23                  | 21.14                       | 21.24                |                     |  |
| 5               | QPSK       | 12      | 7         | 21.33               | 21.27                      | 21.31                  | 21.14                       | 21.27                |                     |  |
| 5               | QPSK       | 12      | 13        | 21.28               | 21.22                      | 21.27                  | 21.16                       | 21.26                | 22                  |  |
| 5               | QPSK       | 25      | 0         | 21.27               | 21.25                      | 21.27                  | 21.10                       | 21.25                |                     |  |
| 5               | 16QAM      | 1       | 0         | 21.37               | 21.21                      | 21.25                  | 21.14                       | 21.25                |                     |  |
| 5               | 16QAM      | 1       | 12        | 21.40               | 21.29                      | 21.39                  | 21.27                       | 21.35                |                     |  |
| 5               | 16QAM      | 1       | 24        | 21.39               | 21.28                      | 21.33                  | 21.22                       | 21.26                |                     |  |
| 5               | 16QAM      | 12      | 0         | 21.30               | 21.19                      | 21.19                  | 21.11                       | 21.20                | 22                  |  |
| 5               | 16QAM      | 12      | 7         | 21.33               | 21.27                      | 21.28                  | 21.13                       | 21.21                |                     |  |
| 5               | 16QAM      | 12      | 13        | 21.28               | 21.28                      | 21.27                  | 21.16                       | 21.19                |                     |  |
| 5               | 16QAM      | 25      | 0         | 21.34               | 21.31                      | 21.32                  | 21.16                       | 21.24                |                     |  |
| 5               | 64QAM      | 1       | 0         | 21.14               | 21.08                      | 20.98                  | 20.98                       | 21.01                |                     |  |
| 5               | 64QAM      | 1       | 12        | 21.05               | 21.15                      | 21.09                  | 21.04                       | 21.02                | 22                  |  |
| 5               | 64QAM      | 1       | 24        | 21.11               | 21.07                      | 21.08                  | 21.01                       | 21.04                |                     |  |
| 5               | 64QAM      | 12      | 0         | 20.87               | 20.73                      | 20.76                  | 20.67                       | 20.75                |                     |  |
| 5               | 64QAM      | 12      | 7         | 20.86               | 20.84                      | 20.85                  | 20.71                       | 20.78                |                     |  |
| 5               | 64QAM      | 12      | 13        | 20.93               | 20.77                      | 20.80                  | 20.71                       | 20.74                |                     |  |
| 5               | 64QAM      | 25      | 0         | 20.86               | 20.82                      | 20.83                  | 20.68                       | 20.76                |                     |  |



| Band 41_Ant 0   |            |         |           |                     |                            |                        |                             |                      |                     |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|---------------------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq |                     | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |                     |  |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |                     |  |
| 20              | QPSK       | 1       | 0         | 21.30               | 21.24                      | 20.93                  | 20.91                       | 20.75                | 22                  |                     |  |
| 20              | QPSK       | 1       | 49        | 21.25               | 21.20                      | 21.27                  | 21.15                       | 21.15                |                     |                     |  |
| 20              | QPSK       | 1       | 99        | 21.23               | 21.25                      | 21.01                  | 20.77                       | 21.09                |                     |                     |  |
| 20              | QPSK       | 50      | 0         | 21.44               | 21.31                      | 21.26                  | 21.23                       | 21.15                |                     |                     |  |
| 20              | QPSK       | 50      | 24        | 21.44               | 21.38                      | 21.47                  | 21.31                       | 21.29                |                     |                     |  |
| 20              | QPSK       | 50      | 50        | 21.41               | 21.39                      | 21.41                  | 21.24                       | 21.36                | 22                  |                     |  |
| 20              | QPSK       | 100     | 0         | 21.36               | 21.28                      | 21.35                  | 21.19                       | 21.22                |                     |                     |  |
| 20              | 16QAM      | 1       | 0         | 21.84               | 21.86                      | 21.27                  | 21.26                       | 21.11                |                     |                     |  |
| 20              | 16QAM      | 1       | 49        | 21.59               | 21.57                      | 21.65                  | 21.52                       | 21.51                |                     |                     |  |
| 20              | 16QAM      | 1       | 99        | 21.58               | 21.69                      | 21.39                  | 21.12                       | 21.44                |                     |                     |  |
| 20              | 16QAM      | 50      | 0         | 21.45               | 21.36                      | 21.33                  | 21.27                       | 21.21                | 22                  |                     |  |
| 20              | 16QAM      | 50      | 24        | 21.45               | 21.48                      | 21.51                  | 21.34                       | 21.35                |                     |                     |  |
| 20              | 16QAM      | 50      | 50        | 21.41               | 21.45                      | 21.45                  | 21.27                       | 21.41                |                     |                     |  |
| 20              | 16QAM      | 100     | 0         | 21.38               | 21.37                      | 21.43                  | 21.22                       | 21.27                |                     |                     |  |
| 20              | 64QAM      | 1       | 0         | 21.56               | 21.46                      | 21.04                  | 21.10                       | 20.92                |                     |                     |  |
| 20              | 64QAM      | 1       | 49        | 21.45               | 21.38                      | 21.50                  | 21.34                       | 21.39                | 22                  |                     |  |
| 20              | 64QAM      | 1       | 99        | 21.49               | 21.50                      | 21.22                  | 20.97                       | 21.33                |                     |                     |  |
| 20              | 64QAM      | 50      | 0         | 21.46               | 21.32                      | 21.30                  | 21.26                       | 21.19                |                     |                     |  |
| 20              | 64QAM      | 50      | 24        | 21.45               | 21.49                      | 21.51                  | 21.33                       | 21.37                |                     |                     |  |
| 20              | 64QAM      | 50      | 50        | 21.42               | 21.42                      | 21.45                  | 21.27                       | 21.41                |                     |                     |  |
| 20              | 64QAM      | 100     | 0         | 21.38               | 21.34                      | 21.41                  | 21.23                       | 21.26                |                     |                     |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |                     |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |                     |  |
| 15              | QPSK       | 1       | 0         | 21.36               | 21.02                      | 21.11                  | 21.05                       | 20.91                | 22                  |                     |  |
| 15              | QPSK       | 1       | 37        | 21.31               | 21.23                      | 21.32                  | 21.20                       | 21.21                |                     |                     |  |
| 15              | QPSK       | 1       | 74        | 21.31               | 21.00                      | 21.17                  | 20.97                       | 21.17                |                     |                     |  |
| 15              | QPSK       | 36      | 0         | 21.46               | 21.24                      | 21.28                  | 21.25                       | 21.18                |                     |                     |  |
| 15              | QPSK       | 36      | 20        | 21.44               | 21.41                      | 21.44                  | 21.35                       | 21.37                |                     |                     |  |
| 15              | QPSK       | 36      | 39        | 21.42               | 21.30                      | 21.41                  | 21.27                       | 21.37                | 22                  |                     |  |
| 15              | QPSK       | 75      | 0         | 21.39               | 21.33                      | 21.41                  | 21.27                       | 21.25                |                     |                     |  |
| 15              | 16QAM      | 1       | 0         | 21.68               | 21.41                      | 21.41                  | 21.41                       | 21.25                |                     |                     |  |
| 15              | 16QAM      | 1       | 37        | 21.59               | 21.64                      | 21.64                  | 21.57                       | 21.54                |                     |                     |  |
| 15              | 16QAM      | 1       | 74        | 21.60               | 21.44                      | 21.49                  | 21.35                       | 21.55                |                     |                     |  |
| 15              | 16QAM      | 36      | 0         | 21.42               | 21.29                      | 21.30                  | 21.25                       | 21.19                | 22                  |                     |  |
| 15              | 16QAM      | 36      | 20        | 21.40               | 21.43                      | 21.48                  | 21.34                       | 21.36                |                     |                     |  |
| 15              | 16QAM      | 36      | 39        | 21.38               | 21.35                      | 21.44                  | 21.28                       | 21.37                |                     |                     |  |
| 15              | 16QAM      | 75      | 0         | 21.40               | 21.37                      | 21.44                  | 21.33                       | 21.26                |                     |                     |  |
| 15              | 64QAM      | 1       | 0         | 21.53               | 21.24                      | 21.18                  | 21.24                       | 21.07                |                     |                     |  |
| 15              | 64QAM      | 1       | 37        | 21.49               | 21.46                      | 21.47                  | 21.40                       | 21.42                | 22                  |                     |  |
| 15              | 64QAM      | 1       | 74        | 21.49               | 21.24                      | 21.38                  | 21.18                       | 21.42                |                     |                     |  |
| 15              | 64QAM      | 36      | 0         | 21.46               | 21.26                      | 21.30                  | 21.26                       | 21.21                |                     |                     |  |
| 15              | 64QAM      | 36      | 20        | 21.47               | 21.53                      | 21.49                  | 21.37                       | 21.40                |                     |                     |  |
| 15              | 64QAM      | 36      | 39        | 21.43               | 21.31                      | 21.45                  | 21.27                       | 21.29                |                     |                     |  |
| 15              | 64QAM      | 75      | 0         | 21.41               | 21.33                      | 21.44                  | 21.32                       | 21.27                |                     |                     |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |                     |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |                     |  |
| 10              | QPSK       | 1       | 0         | 21.09               | 20.78                      | 20.76                  | 20.71                       | 20.77                | 22                  |                     |  |
| 10              | QPSK       | 1       | 25        | 21.05               | 21.04                      | 21.03                  | 20.97                       | 21.02                |                     |                     |  |
| 10              | QPSK       | 1       | 49        | 21.13               | 20.80                      | 20.86                  | 20.77                       | 20.82                |                     |                     |  |
| 10              | QPSK       | 25      | 0         | 21.27               | 21.09                      | 21.13                  | 21.02                       | 21.08                |                     |                     |  |
| 10              | QPSK       | 25      | 12        | 21.28               | 21.26                      | 21.29                  | 21.09                       | 21.25                |                     |                     |  |
| 10              | QPSK       | 25      | 25        | 21.25               | 21.14                      | 21.18                  | 21.06                       | 21.13                | 22                  |                     |  |
| 10              | QPSK       | 50      | 0         | 21.20               | 21.18                      | 21.18                  | 21.01                       | 21.18                |                     |                     |  |
| 10              | 16QAM      | 1       | 0         | 21.47               | 21.17                      | 21.17                  | 21.09                       | 21.12                |                     |                     |  |
| 10              | 16QAM      | 1       | 25        | 21.44               | 21.41                      | 21.44                  | 21.33                       | 21.32                |                     |                     |  |
| 10              | 16QAM      | 1       | 49        | 21.44               | 21.14                      | 21.19                  | 21.10                       | 21.10                |                     |                     |  |
| 10              | 16QAM      | 25      | 0         | 21.33               | 21.14                      | 21.17                  | 21.07                       | 21.10                | 22                  |                     |  |
| 10              | 16QAM      | 25      | 12        | 21.34               | 21.32                      | 21.33                  | 21.16                       | 21.27                |                     |                     |  |
| 10              | 16QAM      | 25      | 25        | 21.27               | 21.22                      | 21.23                  | 21.13                       | 21.14                |                     |                     |  |
| 10              | 16QAM      | 50      | 0         | 21.29               | 21.21                      | 21.25                  | 21.08                       | 21.18                |                     |                     |  |
| 10              | 64QAM      | 1       | 0         | 21.43               | 21.05                      | 21.03                  | 20.96                       | 20.97                |                     |                     |  |
| 10              | 64QAM      | 1       | 25        | 21.32               | 21.43                      | 21.35                  | 21.36                       | 21.35                | 22                  |                     |  |
| 10              | 64QAM      | 1       | 49        | 21.34               | 21.10                      | 21.09                  | 21.01                       | 21.03                |                     |                     |  |
| 10              | 64QAM      | 25      | 0         | 21.35               | 21.18                      | 21.20                  | 21.12                       | 21.16                |                     |                     |  |
| 10              | 64QAM      | 25      | 12        | 21.37               | 21.38                      | 21.38                  | 21.20                       | 21.32                |                     |                     |  |
| 10              | 64QAM      | 25      | 25        | 21.33               | 21.23                      | 21.26                  | 21.17                       | 21.20                |                     |                     |  |
| 10              | 64QAM      | 50      | 0         | 21.22               | 21.21                      | 21.23                  | 21.06                       | 21.17                |                     |                     |  |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |                     |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.3                     | 2593                   | 2640.3                      | 2687.5               |                     |                     |  |
| 5               | QPSK       | 1       | 0         | 21.15               | 21.01                      | 20.98                  | 20.91                       | 21.05                | 22                  |                     |  |
| 5               | QPSK       | 1       | 12        | 21.07               | 21.04                      | 21.09                  | 21.02                       | 21.08                |                     |                     |  |
| 5               | QPSK       | 1       | 24        | 21.07               | 21.05                      | 21.07                  | 20.94                       | 21.01                |                     |                     |  |
| 5               | QPSK       | 12      | 0         | 21.29               | 21.20                      | 21.18                  | 21.09                       | 21.21                |                     |                     |  |
| 5               | QPSK       | 12      | 7         | 21.32               | 21.25                      | 21.27                  | 21.13                       | 21.26                |                     |                     |  |
| 5               | QPSK       | 12      | 13        | 21.26               | 21.23                      | 21.24                  | 21.16                       | 21.18                | 22                  |                     |  |
| 5               | QPSK       | 25      | 0         | 21.24               | 21.21                      | 21.26                  | 21.07                       | 21.19                |                     |                     |  |
| 5               | 16QAM      | 1       | 0         | 21.45               | 21.28                      | 21.34                  | 21.20                       | 21.31                |                     |                     |  |
| 5               | 16QAM      | 1       | 12        | 21.41               | 21.31                      | 21.38                  | 21.27                       | 21.33                |                     |                     |  |
| 5               | 16QAM      | 1       | 24        | 21.45               | 21.33                      | 21.40                  | 21.26                       | 21.31                |                     |                     |  |
| 5               | 16QAM      | 12      | 0         | 21.35               | 21.23                      | 21.22                  | 21.14                       | 21.23                | 22                  |                     |  |
| 5               | 16QAM      | 12      | 7         | 21.38               | 21.30                      | 21.30                  | 21.15                       | 21.23                |                     |                     |  |
| 5               | 16QAM      | 12      | 13        | 21.33               | 21.25                      | 21.29                  | 21.19                       | 21.23                |                     |                     |  |
| 5               | 16QAM      | 25      | 0         | 21.35               | 21.30                      | 21.31                  | 21.16                       | 21.23                |                     |                     |  |
| 5               | 64QAM      | 1       | 0         | 21.33               | 21.21                      | 21.22                  | 21.20                       | 21.23                |                     |                     |  |
| 5               | 64QAM      | 1       | 12        | 21.31               | 21.28                      | 21.29                  | 21.21                       | 21.24                | 22                  |                     |  |
| 5               | 64QAM      | 1       | 24        | 21.33               | 21.27                      | 21.30                  | 21.18                       | 21.18                |                     |                     |  |
| 5               | 64QAM      | 12      | 0         | 21.34               | 21.22                      | 21.23                  | 21.17                       | 21.24                |                     |                     |  |
| 5               | 64QAM      | 12      | 7         | 21.35               | 21.34                      | 21.32                  | 21.17                       | 21.31                |                     |                     |  |
| 5               | 64QAM      | 12      | 13        | 21.35               | 21.28                      | 21.30                  | 21.20                       | 21.20                |                     |                     |  |
| 5               | 64QAM      | 25      | 0         | 21.32               | 21.29                      | 21.30                  | 21.14                       | 21.24                |                     |                     |  |



| Band 38_Ant 0   |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 37650                 | 38000                    | 38150                  |                     |
| Frequency (MHz) |            |         |           | 2500                  | 2505                     | 2510                   |                     |
| 20              | QPSK       | 1       | 0         | 19.41                 | 19.40                    | 19.39                  | 20                  |
| 20              | QPSK       | 1       | 49        | 19.40                 | 19.38                    | 19.28                  |                     |
| 20              | QPSK       | 1       | 99        | 19.32                 | 19.24                    | 19.19                  |                     |
| 20              | QPSK       | 50      | 0         | 19.27                 | 19.25                    | 19.21                  |                     |
| 20              | QPSK       | 50      | 24        | 19.42                 | 19.37                    | 19.28                  | 20                  |
| 20              | QPSK       | 50      | 50        | 19.29                 | 19.25                    | 19.22                  |                     |
| 20              | QPSK       | 100     | 0         | 19.32                 | 19.28                    | 19.17                  |                     |
| 20              | 16QAM      | 1       | 0         | 19.57                 | 19.59                    | 19.58                  |                     |
| 20              | 16QAM      | 1       | 49        | 19.51                 | 19.44                    | 19.43                  | 20                  |
| 20              | 16QAM      | 1       | 99        | 19.47                 | 19.38                    | 19.36                  |                     |
| 20              | 16QAM      | 50      | 0         | 19.30                 | 19.28                    | 19.25                  |                     |
| 20              | 16QAM      | 50      | 24        | 19.47                 | 19.44                    | 19.32                  |                     |
| 20              | 16QAM      | 50      | 50        | 19.34                 | 19.31                    | 19.23                  | 20                  |
| 20              | 16QAM      | 100     | 0         | 19.34                 | 19.34                    | 19.20                  |                     |
| 20              | 64QAM      | 1       | 0         | 19.15                 | 19.16                    | 19.11                  |                     |
| 20              | 64QAM      | 1       | 49        | 19.14                 | 19.04                    | 19.05                  |                     |
| 20              | 64QAM      | 1       | 99        | 19.11                 | 19.00                    | 19.00                  | 20                  |
| 20              | 64QAM      | 50      | 0         | 19.29                 | 19.27                    | 19.23                  |                     |
| 20              | 64QAM      | 50      | 24        | 19.46                 | 19.40                    | 19.29                  |                     |
| 20              | 64QAM      | 50      | 50        | 19.32                 | 19.26                    | 19.21                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.32                 | 19.30                    | 19.19                  |                     |
| Channel         |            |         |           | 37625                 | 38000                    | 38175                  |                     |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |
| 15              | QPSK       | 1       | 0         | 19.35                 | 19.36                    | 19.31                  | 20                  |
| 15              | QPSK       | 1       | 37        | 19.32                 | 19.30                    | 19.24                  |                     |
| 15              | QPSK       | 1       | 74        | 19.25                 | 19.25                    | 19.19                  |                     |
| 15              | QPSK       | 36      | 0         | 19.28                 | 19.28                    | 19.22                  |                     |
| 15              | QPSK       | 36      | 20        | 19.43                 | 19.41                    | 19.25                  | 20                  |
| 15              | QPSK       | 36      | 39        | 19.33                 | 19.27                    | 19.21                  |                     |
| 15              | QPSK       | 75      | 0         | 19.37                 | 19.35                    | 19.18                  |                     |
| 15              | 16QAM      | 1       | 0         | 19.55                 | 19.55                    | 19.51                  |                     |
| 15              | 16QAM      | 1       | 37        | 19.41                 | 19.42                    | 19.40                  | 20                  |
| 15              | 16QAM      | 1       | 74        | 19.49                 | 19.41                    | 19.35                  |                     |
| 15              | 16QAM      | 36      | 0         | 19.30                 | 19.24                    | 19.18                  |                     |
| 15              | 16QAM      | 36      | 20        | 19.43                 | 19.38                    | 19.24                  |                     |
| 15              | 16QAM      | 36      | 39        | 19.33                 | 19.27                    | 19.21                  | 20                  |
| 15              | 16QAM      | 75      | 0         | 19.39                 | 19.38                    | 19.23                  |                     |
| 15              | 64QAM      | 1       | 0         | 19.07                 | 19.09                    | 19.01                  |                     |
| 15              | 64QAM      | 1       | 37        | 19.08                 | 19.06                    | 19.01                  |                     |
| 15              | 64QAM      | 1       | 74        | 19.07                 | 19.00                    | 18.93                  | 20                  |
| 15              | 64QAM      | 36      | 0         | 19.32                 | 19.29                    | 19.23                  |                     |
| 15              | 64QAM      | 36      | 20        | 19.42                 | 19.40                    | 19.24                  |                     |
| 15              | 64QAM      | 36      | 39        | 19.33                 | 19.29                    | 19.22                  |                     |
| 15              | 64QAM      | 75      | 0         | 19.37                 | 19.34                    | 19.20                  |                     |
| Channel         |            |         |           | 37600                 | 38000                    | 38200                  |                     |
| Frequency (MHz) |            |         |           | 2575                  | 2595                     | 2615                   |                     |
| 10              | QPSK       | 1       | 0         | 19.39                 | 19.38                    | 19.37                  | 20                  |
| 10              | QPSK       | 1       | 25        | 19.31                 | 19.30                    | 19.19                  |                     |
| 10              | QPSK       | 1       | 49        | 19.23                 | 19.15                    | 19.18                  |                     |
| 10              | QPSK       | 25      | 0         | 19.22                 | 19.25                    | 19.20                  |                     |
| 10              | QPSK       | 25      | 12        | 19.36                 | 19.32                    | 19.28                  | 20                  |
| 10              | QPSK       | 25      | 25        | 19.22                 | 19.20                    | 19.15                  |                     |
| 10              | QPSK       | 50      | 0         | 19.23                 | 19.25                    | 19.12                  |                     |
| 10              | 16QAM      | 1       | 0         | 19.54                 | 19.56                    | 19.56                  |                     |
| 10              | 16QAM      | 1       | 25        | 19.43                 | 19.40                    | 19.35                  | 20                  |
| 10              | 16QAM      | 1       | 49        | 19.45                 | 19.38                    | 19.28                  |                     |
| 10              | 16QAM      | 25      | 0         | 19.25                 | 19.18                    | 19.25                  |                     |
| 10              | 16QAM      | 25      | 12        | 19.45                 | 19.41                    | 19.24                  |                     |
| 10              | 16QAM      | 25      | 25        | 19.30                 | 19.21                    | 19.23                  | 20                  |
| 10              | 16QAM      | 50      | 0         | 19.26                 | 19.25                    | 19.19                  |                     |
| 10              | 64QAM      | 1       | 0         | 19.07                 | 19.09                    | 19.10                  |                     |
| 10              | 64QAM      | 1       | 25        | 19.12                 | 19.02                    | 18.95                  |                     |
| 10              | 64QAM      | 1       | 49        | 19.05                 | 18.95                    | 18.90                  | 20                  |
| 10              | 64QAM      | 25      | 0         | 19.24                 | 19.17                    | 19.21                  |                     |
| 10              | 64QAM      | 25      | 12        | 19.40                 | 19.38                    | 19.28                  |                     |
| 10              | 64QAM      | 25      | 25        | 19.29                 | 19.22                    | 19.14                  |                     |
| 10              | 64QAM      | 50      | 0         | 19.27                 | 19.22                    | 19.15                  |                     |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  |                     |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |
| 5               | QPSK       | 1       | 0         | 19.01                 | 18.99                    | 18.89                  | 20                  |
| 5               | QPSK       | 1       | 12        | 19.05                 | 19.08                    | 18.99                  |                     |
| 5               | QPSK       | 1       | 24        | 19.07                 | 19.02                    | 18.93                  |                     |
| 5               | QPSK       | 12      | 0         | 19.16                 | 19.08                    | 19.01                  |                     |
| 5               | QPSK       | 12      | 7         | 19.19                 | 19.21                    | 19.11                  | 20                  |
| 5               | QPSK       | 12      | 13        | 19.16                 | 19.14                    | 19.06                  |                     |
| 5               | QPSK       | 25      | 0         | 19.15                 | 19.14                    | 19.05                  |                     |
| 5               | 16QAM      | 1       | 0         | 19.14                 | 19.10                    | 19.00                  |                     |
| 5               | 16QAM      | 1       | 12        | 19.30                 | 19.28                    | 19.20                  | 20                  |
| 5               | 16QAM      | 1       | 24        | 19.22                 | 19.16                    | 19.10                  |                     |
| 5               | 16QAM      | 12      | 0         | 19.12                 | 19.05                    | 18.93                  |                     |
| 5               | 16QAM      | 12      | 7         | 19.17                 | 19.14                    | 19.06                  |                     |
| 5               | 16QAM      | 12      | 13        | 19.16                 | 19.13                    | 19.01                  | 20                  |
| 5               | 16QAM      | 25      | 0         | 19.20                 | 19.15                    | 19.05                  |                     |
| 5               | 64QAM      | 1       | 0         | 18.82                 | 18.77                    | 18.66                  |                     |
| 5               | 64QAM      | 1       | 12        | 18.91                 | 18.85                    | 18.78                  |                     |
| 5               | 64QAM      | 1       | 24        | 18.87                 | 18.82                    | 18.71                  | 20                  |
| 5               | 64QAM      | 12      | 0         | 19.18                 | 19.16                    | 19.05                  |                     |
| 5               | 64QAM      | 12      | 7         | 19.30                 | 19.24                    | 19.18                  |                     |
| 5               | 64QAM      | 12      | 13        | 19.21                 | 19.23                    | 19.10                  |                     |
| 5               | 64QAM      | 25      | 0         | 19.21                 | 19.24                    | 19.14                  |                     |



| Band 41_Ant 0   |            |         |           |                     |                            |                        |                             |                      |                     |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|---------------------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq |                     | Turn-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |                     |  |
| Frequency (MHz) |            |         |           | 2500                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |                     |  |
| 20              | QPSK       | 1       | 0         | 18.40               | 18.30                      | 18.07                  | 18.10                       | 17.92                | 19                  |                     |  |
| 20              | QPSK       | 1       | 49        | 18.41               | 18.34                      | 18.45                  | 18.38                       | 18.36                |                     |                     |  |
| 20              | QPSK       | 1       | 99        | 18.34               | 18.34                      | 18.14                  | 17.95                       | 18.29                |                     |                     |  |
| 20              | QPSK       | 50      | 0         | 18.48               | 18.38                      | 18.32                  | 18.29                       | 18.24                |                     |                     |  |
| 20              | QPSK       | 50      | 24        | 18.48               | 18.45                      | 18.53                  | 18.37                       | 18.38                |                     |                     |  |
| 20              | QPSK       | 50      | 50        | 18.41               | 18.45                      | 18.45                  | 18.31                       | 18.47                | 19                  |                     |  |
| 20              | QPSK       | 100     | 0         | 18.38               | 18.33                      | 18.42                  | 18.25                       | 18.29                |                     |                     |  |
| 20              | 16QAM      | 1       | 0         | 18.61               | 18.37                      | 18.21                  | 18.23                       | 18.07                |                     |                     |  |
| 20              | 16QAM      | 1       | 49        | 18.50               | 18.33                      | 18.56                  | 18.47                       | 18.46                |                     |                     |  |
| 20              | 16QAM      | 1       | 99        | 18.47               | 18.41                      | 18.30                  | 18.05                       | 18.41                |                     |                     |  |
| 20              | 16QAM      | 50      | 0         | 18.51               | 18.41                      | 18.37                  | 18.35                       | 18.27                | 19                  |                     |  |
| 20              | 16QAM      | 50      | 24        | 18.52               | 18.51                      | 18.54                  | 18.41                       | 18.42                |                     |                     |  |
| 20              | 16QAM      | 50      | 50        | 18.49               | 18.52                      | 18.48                  | 18.34                       | 18.46                |                     |                     |  |
| 20              | 16QAM      | 100     | 0         | 18.41               | 18.38                      | 18.46                  | 18.29                       | 18.33                |                     |                     |  |
| 20              | 64QAM      | 1       | 0         | 18.31               | 18.43                      | 17.88                  | 17.92                       | 17.73                |                     |                     |  |
| 20              | 64QAM      | 1       | 49        | 18.21               | 18.26                      | 18.34                  | 18.19                       | 18.25                | 19                  |                     |  |
| 20              | 64QAM      | 1       | 99        | 18.26               | 18.41                      | 18.04                  | 17.84                       | 18.21                |                     |                     |  |
| 20              | 64QAM      | 50      | 0         | 18.52               | 18.43                      | 18.37                  | 18.34                       | 18.28                |                     |                     |  |
| 20              | 64QAM      | 50      | 24        | 18.49               | 18.49                      | 18.56                  | 18.40                       | 18.44                |                     |                     |  |
| 20              | 64QAM      | 50      | 50        | 18.45               | 18.59                      | 18.50                  | 18.33                       | 18.50                |                     |                     |  |
| 20              | 64QAM      | 100     | 0         | 18.42               | 18.39                      | 18.46                  | 18.31                       | 18.34                |                     |                     |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Turn-up limit (dBm) |                     |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |                     |  |
| 15              | QPSK       | 1       | 0         | 18.39               | 18.13                      | 18.19                  | 18.10                       | 18.05                | 19                  |                     |  |
| 15              | QPSK       | 1       | 37        | 18.38               | 18.37                      | 18.37                  | 18.19                       | 18.31                |                     |                     |  |
| 15              | QPSK       | 1       | 74        | 18.33               | 18.15                      | 18.25                  | 18.03                       | 18.30                |                     |                     |  |
| 15              | QPSK       | 36      | 0         | 18.51               | 18.29                      | 18.35                  | 18.32                       | 18.27                |                     |                     |  |
| 15              | QPSK       | 36      | 20        | 18.47               | 18.43                      | 18.55                  | 18.42                       | 18.47                |                     |                     |  |
| 15              | QPSK       | 36      | 39        | 18.44               | 18.34                      | 18.47                  | 18.34                       | 18.46                | 19                  |                     |  |
| 15              | QPSK       | 75      | 0         | 18.42               | 18.37                      | 18.48                  | 18.37                       | 18.34                |                     |                     |  |
| 15              | 16QAM      | 1       | 0         | 18.59               | 18.19                      | 18.37                  | 18.35                       | 18.28                |                     |                     |  |
| 15              | 16QAM      | 1       | 37        | 18.47               | 18.30                      | 18.56                  | 18.56                       | 18.51                |                     |                     |  |
| 15              | 16QAM      | 1       | 74        | 18.55               | 18.23                      | 18.45                  | 18.29                       | 18.51                |                     |                     |  |
| 15              | 16QAM      | 36      | 0         | 18.47               | 18.31                      | 18.34                  | 18.31                       | 18.27                | 19                  |                     |  |
| 15              | 16QAM      | 36      | 20        | 18.47               | 18.45                      | 18.53                  | 18.44                       | 18.45                |                     |                     |  |
| 15              | 16QAM      | 36      | 39        | 18.48               | 18.35                      | 18.50                  | 18.34                       | 18.45                |                     |                     |  |
| 15              | 16QAM      | 75      | 0         | 18.46               | 18.44                      | 18.51                  | 18.40                       | 18.38                |                     |                     |  |
| 15              | 64QAM      | 1       | 0         | 18.37               | 18.10                      | 18.06                  | 18.16                       | 17.92                |                     |                     |  |
| 15              | 64QAM      | 1       | 37        | 18.28               | 18.31                      | 18.35                  | 18.28                       | 18.29                | 19                  |                     |  |
| 15              | 64QAM      | 1       | 74        | 18.30               | 18.14                      | 18.20                  | 18.09                       | 18.29                |                     |                     |  |
| 15              | 64QAM      | 36      | 0         | 18.51               | 18.36                      | 18.40                  | 18.36                       | 18.32                |                     |                     |  |
| 15              | 64QAM      | 36      | 20        | 18.54               | 18.50                      | 18.59                  | 18.47                       | 18.51                |                     |                     |  |
| 15              | 64QAM      | 36      | 39        | 18.49               | 18.40                      | 18.53                  | 18.40                       | 18.51                |                     |                     |  |
| 15              | 64QAM      | 75      | 0         | 18.46               | 18.42                      | 18.50                  | 18.43                       | 18.37                |                     |                     |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Turn-up limit (dBm) |                     |  |
| Frequency (MHz) |            |         |           | 2491                | 2547                       | 2593                   | 2639                        | 2685                 |                     |                     |  |
| 10              | QPSK       | 1       | 0         | 18.34               | 18.03                      | 18.10                  | 18.09                       | 17.95                | 19                  |                     |  |
| 10              | QPSK       | 1       | 25        | 18.30               | 18.36                      | 18.33                  | 18.12                       | 18.31                |                     |                     |  |
| 10              | QPSK       | 1       | 49        | 18.33               | 18.12                      | 18.20                  | 18.01                       | 18.25                |                     |                     |  |
| 10              | QPSK       | 25      | 0         | 18.51               | 18.19                      | 18.35                  | 18.30                       | 18.27                |                     |                     |  |
| 10              | QPSK       | 25      | 12        | 18.37               | 18.35                      | 18.54                  | 18.38                       | 18.38                |                     |                     |  |
| 10              | QPSK       | 25      | 25        | 18.36               | 18.25                      | 18.37                  | 18.27                       | 18.39                | 19                  |                     |  |
| 10              | QPSK       | 50      | 0         | 18.39               | 18.29                      | 18.45                  | 18.32                       | 18.26                |                     |                     |  |
| 10              | 16QAM      | 1       | 0         | 18.54               | 18.12                      | 18.32                  | 18.33                       | 18.18                |                     |                     |  |
| 10              | 16QAM      | 1       | 25        | 18.39               | 18.28                      | 18.52                  | 18.55                       | 18.44                |                     |                     |  |
| 10              | 16QAM      | 1       | 49        | 18.53               | 18.14                      | 18.35                  | 18.28                       | 18.49                |                     |                     |  |
| 10              | 16QAM      | 25      | 0         | 18.37               | 18.24                      | 18.28                  | 18.31                       | 18.17                | 19                  |                     |  |
| 10              | 16QAM      | 25      | 12        | 18.44               | 18.38                      | 18.43                  | 18.42                       | 18.39                |                     |                     |  |
| 10              | 16QAM      | 25      | 25        | 18.47               | 18.33                      | 18.50                  | 18.33                       | 18.37                |                     |                     |  |
| 10              | 16QAM      | 50      | 0         | 18.46               | 18.40                      | 18.42                  | 18.30                       | 18.28                |                     |                     |  |
| 10              | 64QAM      | 1       | 0         | 18.28               | 18.09                      | 17.99                  | 18.08                       | 17.85                |                     |                     |  |
| 10              | 64QAM      | 1       | 25        | 18.25               | 18.25                      | 18.28                  | 18.20                       | 18.19                | 19                  |                     |  |
| 10              | 64QAM      | 1       | 49        | 18.24               | 18.09                      | 18.11                  | 18.09                       | 18.24                |                     |                     |  |
| 10              | 64QAM      | 25      | 0         | 18.47               | 18.28                      | 18.37                  | 18.31                       | 18.32                |                     |                     |  |
| 10              | 64QAM      | 25      | 12        | 18.46               | 18.50                      | 18.51                  | 18.47                       | 18.49                |                     |                     |  |
| 10              | 64QAM      | 25      | 25        | 18.46               | 18.36                      | 18.48                  | 18.36                       | 18.45                |                     |                     |  |
| 10              | 64QAM      | 50      | 0         | 18.41               | 18.34                      | 18.45                  | 18.35                       | 18.37                |                     |                     |  |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41063                       | 41565                | Turn-up limit (dBm) |                     |  |
| Frequency (MHz) |            |         |           | 2488.5              | 2545.8                     | 2593                   | 2640.38                     | 2687.5               |                     |                     |  |
| 5               | QPSK       | 1       | 0         | 18.28               | 18.09                      | 18.19                  | 18.22                       | 18.23                | 19                  |                     |  |
| 5               | QPSK       | 1       | 12        | 18.14               | 18.12                      | 18.22                  | 18.20                       | 18.20                |                     |                     |  |
| 5               | QPSK       | 1       | 24        | 18.19               | 18.10                      | 18.17                  | 18.21                       | 18.15                |                     |                     |  |
| 5               | QPSK       | 12      | 0         | 18.34               | 18.28                      | 18.28                  | 18.19                       | 18.28                |                     |                     |  |
| 5               | QPSK       | 12      | 7         | 18.31               | 18.31                      | 18.35                  | 18.22                       | 18.31                |                     |                     |  |
| 5               | QPSK       | 12      | 13        | 18.32               | 18.30                      | 18.30                  | 18.24                       | 18.25                | 19                  |                     |  |
| 5               | QPSK       | 25      | 0         | 18.28               | 18.29                      | 18.33                  | 18.18                       | 18.26                |                     |                     |  |
| 5               | 16QAM      | 1       | 0         | 18.38               | 18.30                      | 18.30                  | 18.26                       | 18.31                |                     |                     |  |
| 5               | 16QAM      | 1       | 12        | 18.38               | 18.38                      | 18.41                  | 18.31                       | 18.39                |                     |                     |  |
| 5               | 16QAM      | 1       | 24        | 18.40               | 18.36                      | 18.38                  | 18.32                       | 18.31                |                     |                     |  |
| 5               | 16QAM      | 12      | 0         | 18.32               | 18.24                      | 18.26                  | 18.17                       | 18.26                | 19                  |                     |  |
| 5               | 16QAM      | 12      | 7         | 18.34               | 18.32                      | 18.34                  | 18.21                       | 18.32                |                     |                     |  |
| 5               | 16QAM      | 12      | 13        | 18.29               | 18.28                      | 18.32                  | 18.23                       | 18.22                |                     |                     |  |
| 5               | 16QAM      | 25      | 0         | 18.33               | 18.36                      | 18.35                  | 18.23                       | 18.33                |                     |                     |  |
| 5               | 64QAM      | 1       | 0         | 18.15               | 18.03                      | 18.09                  | 18.20                       | 18.09                |                     |                     |  |
| 5               | 64QAM      | 1       | 12        | 18.13               | 18.25                      | 18.17                  | 18.09                       | 18.11                | 19                  |                     |  |
| 5               | 64QAM      | 1       | 24        | 18.12               | 18.23                      | 18.14                  | 18.17                       | 18.12                |                     |                     |  |
| 5               | 64QAM      | 12      | 0         | 18.35               | 18.30                      | 18.32                  | 18.27                       | 18.34                |                     |                     |  |
| 5               | 64QAM      | 12      | 7         | 18.38               | 18.37                      | 18.40                  | 18.27                       | 18.35                |                     |                     |  |
| 5               | 64QAM      | 12      | 13        | 18.36               | 18.35                      | 18.39                  | 18.29                       | 18.33                |                     |                     |  |
| 5               | 64QAM      | 25      | 0         | 18.38               | 18.34                      | 18.38                  | 18.25                       | 18.32                |                     |                     |  |



| Band 41_Ant 0   |            |         |           |                     |                            |                        |                             |                      |                     |                     |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|---------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch [Freq] | Power Low Middle Ch [Freq] | Power Middle Ch [Freq] | Power High Middle Ch [Freq] | Power High Ch [Freq] |                     | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |                     |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |                     |
| 20              | QPSK       | 1       | 0         | 18.29               | 18.26                      | 17.91                  | 17.99                       | 17.81                | 19                  |                     |
| 20              | QPSK       | 1       | 49        | 18.23               | 18.22                      | 18.30                  | 18.19                       | 18.23                |                     |                     |
| 20              | QPSK       | 1       | 99        | 18.22               | 18.24                      | 18.02                  | 17.82                       | 18.17                |                     |                     |
| 20              | QPSK       | 50      | 0         | 18.45               | 18.32                      | 18.30                  | 18.29                       | 18.22                |                     |                     |
| 20              | QPSK       | 50      | 24        | 18.45               | 18.43                      | 18.52                  | 18.36                       | 18.36                | 19                  |                     |
| 20              | QPSK       | 50      | 50        | 18.44               | 18.45                      | 18.43                  | 18.28                       | 18.45                |                     |                     |
| 20              | QPSK       | 100     | 0         | 18.35               | 18.30                      | 18.41                  | 18.24                       | 18.29                |                     |                     |
| 20              | 16QAM      | 1       | 0         | 18.74               | 18.68                      | 18.27                  | 18.39                       | 18.14                | 19                  |                     |
| 20              | 16QAM      | 1       | 49        | 18.62               | 18.63                      | 18.68                  | 18.60                       | 18.64                |                     |                     |
| 20              | 16QAM      | 1       | 99        | 18.64               | 18.71                      | 18.40                  | 18.21                       | 18.52                |                     |                     |
| 20              | 16QAM      | 50      | 0         | 18.50               | 18.42                      | 18.35                  | 18.34                       | 18.27                |                     |                     |
| 20              | 16QAM      | 50      | 24        | 18.49               | 18.50                      | 18.55                  | 18.39                       | 18.41                | 19                  |                     |
| 20              | 16QAM      | 50      | 50        | 18.44               | 18.48                      | 18.49                  | 18.33                       | 18.49                |                     |                     |
| 20              | 16QAM      | 100     | 0         | 18.39               | 18.37                      | 18.46                  | 18.29                       | 18.35                |                     |                     |
| 20              | 64QAM      | 1       | 0         | 18.62               | 18.58                      | 18.13                  | 18.18                       | 18.00                | 19                  |                     |
| 20              | 64QAM      | 1       | 49        | 18.47               | 18.47                      | 18.55                  | 18.44                       | 18.49                |                     |                     |
| 20              | 64QAM      | 1       | 99        | 18.55               | 18.60                      | 18.27                  | 18.05                       | 18.43                |                     |                     |
| 20              | 64QAM      | 50      | 0         | 18.50               | 18.41                      | 18.36                  | 18.34                       | 18.25                |                     |                     |
| 20              | 64QAM      | 50      | 24        | 18.47               | 18.47                      | 18.57                  | 18.40                       | 18.42                | 19                  |                     |
| 20              | 64QAM      | 50      | 50        | 18.43               | 18.47                      | 18.50                  | 18.31                       | 18.49                |                     |                     |
| 20              | 64QAM      | 100     | 0         | 18.40               | 18.39                      | 18.45                  | 18.30                       | 18.33                |                     |                     |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |                     |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |                     |
| 15              | QPSK       | 1       | 0         | 18.33               | 18.06                      | 18.12                  | 18.05                       | 17.97                | 19                  |                     |
| 15              | QPSK       | 1       | 37        | 18.27               | 18.30                      | 18.33                  | 18.17                       | 18.27                |                     |                     |
| 15              | QPSK       | 1       | 74        | 18.27               | 18.05                      | 18.18                  | 17.97                       | 18.24                |                     |                     |
| 15              | QPSK       | 36      | 0         | 18.49               | 18.26                      | 18.33                  | 18.33                       | 18.24                |                     |                     |
| 15              | QPSK       | 36      | 20        | 18.44               | 18.38                      | 18.50                  | 18.44                       | 18.47                | 19                  |                     |
| 15              | QPSK       | 36      | 39        | 18.43               | 18.31                      | 18.46                  | 18.32                       | 18.42                |                     |                     |
| 15              | QPSK       | 75      | 0         | 18.41               | 18.32                      | 18.43                  | 18.35                       | 18.31                |                     |                     |
| 15              | 16QAM      | 1       | 0         | 18.67               | 18.42                      | 18.43                  | 18.54                       | 18.37                |                     |                     |
| 15              | 16QAM      | 1       | 37        | 18.63               | 18.54                      | 18.69                  | 18.70                       | 18.62                | 19                  |                     |
| 15              | 16QAM      | 1       | 74        | 18.66               | 18.36                      | 18.57                  | 18.45                       | 18.62                |                     |                     |
| 15              | 16QAM      | 36      | 0         | 18.48               | 18.29                      | 18.35                  | 18.30                       | 18.25                |                     |                     |
| 15              | 16QAM      | 36      | 20        | 18.46               | 18.43                      | 18.50                  | 18.40                       | 18.46                |                     |                     |
| 15              | 16QAM      | 36      | 39        | 18.45               | 18.36                      | 18.47                  | 18.33                       | 18.43                | 19                  |                     |
| 15              | 16QAM      | 75      | 0         | 18.44               | 18.39                      | 18.49                  | 18.40                       | 18.34                |                     |                     |
| 15              | 64QAM      | 1       | 0         | 18.61               | 18.32                      | 18.26                  | 18.36                       | 18.17                |                     |                     |
| 15              | 64QAM      | 1       | 37        | 18.62               | 18.57                      | 18.61                  | 18.54                       | 18.51                |                     |                     |
| 15              | 64QAM      | 1       | 74        | 18.55               | 18.37                      | 18.44                  | 18.29                       | 18.51                | 19                  |                     |
| 15              | 64QAM      | 36      | 0         | 18.50               | 18.30                      | 18.38                  | 18.37                       | 18.30                |                     |                     |
| 15              | 64QAM      | 36      | 20        | 18.49               | 18.46                      | 18.56                  | 18.46                       | 18.49                |                     |                     |
| 15              | 64QAM      | 36      | 39        | 18.48               | 18.38                      | 18.52                  | 18.35                       | 18.48                |                     |                     |
| 15              | 64QAM      | 75      | 0         | 18.44               | 18.41                      | 18.48                  | 18.41                       | 18.33                | Tune-up limit (dBm) |                     |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |                     |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |                     |
| 10              | QPSK       | 1       | 0         | 18.18               | 17.80                      | 17.88                  | 17.78                       | 17.79                | 19                  |                     |
| 10              | QPSK       | 1       | 25        | 18.07               | 18.01                      | 18.12                  | 18.09                       | 18.05                |                     |                     |
| 10              | QPSK       | 1       | 49        | 18.15               | 17.84                      | 17.88                  | 17.91                       | 17.88                |                     |                     |
| 10              | QPSK       | 25      | 0         | 18.26               | 18.12                      | 18.19                  | 18.09                       | 18.14                |                     |                     |
| 10              | QPSK       | 25      | 12        | 18.28               | 18.27                      | 18.33                  | 18.17                       | 18.31                | 19                  |                     |
| 10              | QPSK       | 25      | 25        | 18.25               | 18.19                      | 18.22                  | 18.16                       | 18.17                |                     |                     |
| 10              | QPSK       | 50      | 0         | 18.21               | 18.19                      | 18.27                  | 18.11                       | 18.20                |                     |                     |
| 10              | 16QAM      | 1       | 0         | 18.53               | 18.17                      | 18.25                  | 18.17                       | 18.20                |                     |                     |
| 10              | 16QAM      | 1       | 25        | 18.44               | 18.41                      | 18.50                  | 18.39                       | 18.43                | 19                  |                     |
| 10              | 16QAM      | 1       | 49        | 18.46               | 18.16                      | 18.25                  | 18.17                       | 18.19                |                     |                     |
| 10              | 16QAM      | 25      | 12        | 18.37               | 18.37                      | 18.39                  | 18.27                       | 18.36                |                     |                     |
| 10              | 16QAM      | 25      | 25        | 18.35               | 18.24                      | 18.28                  | 18.22                       | 18.22                |                     |                     |
| 10              | 16QAM      | 50      | 0         | 18.26               | 18.26                      | 18.35                  | 18.15                       | 18.25                | 19                  |                     |
| 10              | 16QAM      | 50      | 0         | 18.26               | 18.24                      | 18.31                  | 18.14                       | 18.24                |                     |                     |
| 10              | 64QAM      | 1       | 0         | 18.48               | 18.21                      | 18.12                  | 18.10                       | 18.05                |                     |                     |
| 10              | 64QAM      | 1       | 25        | 18.45               | 18.55                      | 18.49                  | 18.45                       | 18.39                |                     |                     |
| 10              | 64QAM      | 1       | 49        | 18.37               | 18.20                      | 18.18                  | 18.12                       | 18.12                | 19                  |                     |
| 10              | 64QAM      | 25      | 0         | 18.39               | 18.22                      | 18.26                  | 18.19                       | 18.22                |                     |                     |
| 10              | 64QAM      | 25      | 12        | 18.44               | 18.42                      | 18.45                  | 18.31                       | 18.41                |                     |                     |
| 10              | 64QAM      | 25      | 25        | 18.40               | 18.29                      | 18.34                  | 18.25                       | 18.27                |                     |                     |
| 10              | 64QAM      | 50      | 0         | 18.26               | 18.24                      | 18.31                  | 18.14                       | 18.24                | Tune-up limit (dBm) |                     |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41093                       | 41565                |                     |                     |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.39                     | 2687.5               |                     |                     |
| 5               | QPSK       | 1       | 0         | 18.17               | 18.03                      | 18.10                  | 18.07                       | 18.09                | 19                  |                     |
| 5               | QPSK       | 1       | 12        | 18.09               | 18.05                      | 18.14                  | 18.11                       | 18.10                |                     |                     |
| 5               | QPSK       | 1       | 24        | 18.10               | 18.04                      | 18.10                  | 18.11                       | 18.06                |                     |                     |
| 5               | QPSK       | 12      | 0         | 18.31               | 18.20                      | 18.25                  | 18.19                       | 18.28                |                     |                     |
| 5               | QPSK       | 12      | 7         | 18.30               | 18.29                      | 18.35                  | 18.20                       | 18.28                | 19                  |                     |
| 5               | QPSK       | 12      | 13        | 18.30               | 18.25                      | 18.28                  | 18.23                       | 18.26                |                     |                     |
| 5               | QPSK       | 25      | 0         | 18.24               | 18.24                      | 18.29                  | 18.11                       | 18.25                |                     |                     |
| 5               | 16QAM      | 1       | 0         | 18.46               | 18.33                      | 18.39                  | 18.21                       | 18.42                |                     |                     |
| 5               | 16QAM      | 1       | 12        | 18.38               | 18.38                      | 18.43                  | 18.22                       | 18.36                | 19                  |                     |
| 5               | 16QAM      | 1       | 24        | 18.43               | 18.40                      | 18.44                  | 18.28                       | 18.34                |                     |                     |
| 5               | 16QAM      | 12      | 0         | 18.33               | 18.26                      | 18.28                  | 18.20                       | 18.32                |                     |                     |
| 5               | 16QAM      | 12      | 7         | 18.38               | 18.30                      | 18.35                  | 18.24                       | 18.32                |                     |                     |
| 5               | 16QAM      | 12      | 13        | 18.33               | 18.31                      | 18.38                  | 18.27                       | 18.28                | 19                  |                     |
| 5               | 16QAM      | 25      | 0         | 18.35               | 18.34                      | 18.36                  | 18.22                       | 18.32                |                     |                     |
| 5               | 64QAM      | 1       | 0         | 18.37               | 18.29                      | 18.30                  | 18.25                       | 18.31                |                     |                     |
| 5               | 64QAM      | 1       | 12        | 18.37               | 18.40                      | 18.37                  | 18.32                       | 18.30                |                     |                     |
| 5               | 64QAM      | 1       | 24        | 18.36               | 18.34                      | 18.38                  | 18.28                       | 18.25                | 19                  |                     |
| 5               | 64QAM      | 12      | 0         | 18.38               | 18.28                      | 18.33                  | 18.26                       | 18.31                |                     |                     |
| 5               | 64QAM      | 12      | 7         | 18.40               | 18.36                      | 18.40                  | 18.29                       | 18.34                |                     |                     |
| 5               | 64QAM      | 12      | 13        | 18.33               | 18.35                      | 18.37                  | 18.30                       | 18.29                |                     |                     |
| 5               | 64QAM      | 25      | 0         | 18.33               | 18.33                      | 18.40                  | 18.22                       | 18.31                |                     |                     |



| Band 38_Ant 0   |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 37650                 | 38000                    | 38150                  |                     |
| Frequency (MHz) |            |         |           | 2500                  | 2505                     | 2510                   |                     |
| 20              | QPSK       | 1       | 0         | 19.41                 | 19.40                    | 19.39                  | 20.5                |
| 20              | QPSK       | 1       | 49        | 19.40                 | 19.38                    | 19.28                  |                     |
| 20              | QPSK       | 1       | 99        | 19.32                 | 19.24                    | 19.19                  |                     |
| 20              | QPSK       | 50      | 0         | 19.27                 | 19.25                    | 19.21                  |                     |
| 20              | QPSK       | 50      | 24        | 19.42                 | 19.37                    | 19.28                  |                     |
| 20              | QPSK       | 50      | 50        | 19.29                 | 19.25                    | 19.22                  | 20.5                |
| 20              | QPSK       | 100     | 0         | 19.32                 | 19.28                    | 19.17                  |                     |
| 20              | 16QAM      | 1       | 0         | 19.57                 | 19.59                    | 19.58                  |                     |
| 20              | 16QAM      | 1       | 49        | 19.51                 | 19.44                    | 19.43                  |                     |
| 20              | 16QAM      | 1       | 99        | 19.47                 | 19.38                    | 19.36                  |                     |
| 20              | 16QAM      | 50      | 0         | 19.30                 | 19.28                    | 19.25                  | 20.5                |
| 20              | 16QAM      | 50      | 24        | 19.47                 | 19.44                    | 19.32                  |                     |
| 20              | 16QAM      | 50      | 50        | 19.34                 | 19.31                    | 19.23                  |                     |
| 20              | 16QAM      | 100     | 0         | 19.34                 | 19.34                    | 19.20                  |                     |
| 20              | 64QAM      | 1       | 0         | 19.15                 | 19.16                    | 19.11                  |                     |
| 20              | 64QAM      | 1       | 49        | 19.14                 | 19.04                    | 19.05                  | 20.5                |
| 20              | 64QAM      | 1       | 99        | 19.11                 | 19.00                    | 19.00                  |                     |
| 20              | 64QAM      | 50      | 0         | 19.29                 | 19.27                    | 19.23                  |                     |
| 20              | 64QAM      | 50      | 24        | 19.46                 | 19.40                    | 19.29                  |                     |
| 20              | 64QAM      | 50      | 50        | 19.32                 | 19.26                    | 19.21                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.32                 | 19.30                    | 19.19                  |                     |
| Channel         |            |         |           | 37625                 | 38000                    | 38175                  |                     |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |
| 15              | QPSK       | 1       | 0         | 19.35                 | 19.36                    | 19.31                  | 20.5                |
| 15              | QPSK       | 1       | 37        | 19.32                 | 19.30                    | 19.24                  |                     |
| 15              | QPSK       | 1       | 74        | 19.25                 | 19.25                    | 19.19                  |                     |
| 15              | QPSK       | 36      | 0         | 19.28                 | 19.28                    | 19.22                  |                     |
| 15              | QPSK       | 36      | 20        | 19.43                 | 19.41                    | 19.25                  |                     |
| 15              | QPSK       | 36      | 39        | 19.33                 | 19.27                    | 19.21                  | 20.5                |
| 15              | QPSK       | 75      | 0         | 19.37                 | 19.35                    | 19.18                  |                     |
| 15              | 16QAM      | 1       | 0         | 19.55                 | 19.55                    | 19.51                  |                     |
| 15              | 16QAM      | 1       | 37        | 19.41                 | 19.42                    | 19.40                  |                     |
| 15              | 16QAM      | 1       | 74        | 19.49                 | 19.41                    | 19.35                  |                     |
| 15              | 16QAM      | 36      | 0         | 19.30                 | 19.24                    | 19.18                  | 20.5                |
| 15              | 16QAM      | 36      | 20        | 19.43                 | 19.38                    | 19.24                  |                     |
| 15              | 16QAM      | 36      | 39        | 19.33                 | 19.27                    | 19.21                  |                     |
| 15              | 16QAM      | 75      | 0         | 19.39                 | 19.38                    | 19.23                  |                     |
| 15              | 64QAM      | 1       | 0         | 19.07                 | 19.09                    | 19.01                  |                     |
| 15              | 64QAM      | 1       | 37        | 19.08                 | 19.06                    | 19.01                  | 20.5                |
| 15              | 64QAM      | 1       | 74        | 19.07                 | 19.00                    | 18.93                  |                     |
| 15              | 64QAM      | 36      | 0         | 19.32                 | 19.29                    | 19.23                  |                     |
| 15              | 64QAM      | 36      | 20        | 19.42                 | 19.40                    | 19.24                  |                     |
| 15              | 64QAM      | 36      | 39        | 19.33                 | 19.29                    | 19.22                  |                     |
| 15              | 64QAM      | 75      | 0         | 19.37                 | 19.34                    | 19.20                  |                     |
| Channel         |            |         |           | 37600                 | 38000                    | 38200                  |                     |
| Frequency (MHz) |            |         |           | 2575                  | 2595                     | 2615                   |                     |
| 10              | QPSK       | 1       | 0         | 19.39                 | 19.38                    | 19.37                  | 20.5                |
| 10              | QPSK       | 1       | 25        | 19.31                 | 19.30                    | 19.19                  |                     |
| 10              | QPSK       | 1       | 49        | 19.23                 | 19.15                    | 19.18                  |                     |
| 10              | QPSK       | 25      | 0         | 19.22                 | 19.25                    | 19.20                  |                     |
| 10              | QPSK       | 25      | 12        | 19.36                 | 19.32                    | 19.28                  |                     |
| 10              | QPSK       | 25      | 25        | 19.22                 | 19.20                    | 19.15                  | 20.5                |
| 10              | QPSK       | 50      | 0         | 19.23                 | 19.25                    | 19.12                  |                     |
| 10              | 16QAM      | 1       | 0         | 19.54                 | 19.56                    | 19.56                  |                     |
| 10              | 16QAM      | 1       | 25        | 19.43                 | 19.40                    | 19.35                  |                     |
| 10              | 16QAM      | 1       | 49        | 19.45                 | 19.38                    | 19.28                  |                     |
| 10              | 16QAM      | 25      | 0         | 19.25                 | 19.18                    | 19.25                  | 20.5                |
| 10              | 16QAM      | 25      | 12        | 19.45                 | 19.41                    | 19.24                  |                     |
| 10              | 16QAM      | 25      | 25        | 19.30                 | 19.21                    | 19.23                  |                     |
| 10              | 16QAM      | 50      | 0         | 19.26                 | 19.25                    | 19.19                  |                     |
| 10              | 64QAM      | 1       | 0         | 19.07                 | 19.09                    | 19.10                  |                     |
| 10              | 64QAM      | 1       | 25        | 19.12                 | 19.02                    | 18.95                  | 20.5                |
| 10              | 64QAM      | 1       | 49        | 19.05                 | 18.95                    | 18.90                  |                     |
| 10              | 64QAM      | 25      | 0         | 19.24                 | 19.17                    | 19.21                  |                     |
| 10              | 64QAM      | 25      | 12        | 19.40                 | 19.38                    | 19.28                  |                     |
| 10              | 64QAM      | 25      | 25        | 19.29                 | 19.22                    | 19.14                  |                     |
| 10              | 64QAM      | 50      | 0         | 19.27                 | 19.22                    | 19.15                  |                     |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  |                     |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |
| 5               | QPSK       | 1       | 0         | 19.01                 | 18.99                    | 18.89                  | 20.5                |
| 5               | QPSK       | 1       | 12        | 19.05                 | 19.08                    | 18.99                  |                     |
| 5               | QPSK       | 1       | 24        | 19.07                 | 19.02                    | 18.93                  |                     |
| 5               | QPSK       | 12      | 0         | 19.16                 | 19.08                    | 19.01                  |                     |
| 5               | QPSK       | 12      | 7         | 19.19                 | 19.21                    | 19.11                  |                     |
| 5               | QPSK       | 12      | 13        | 19.16                 | 19.14                    | 19.06                  | 20.5                |
| 5               | QPSK       | 25      | 0         | 19.15                 | 19.14                    | 19.05                  |                     |
| 5               | 16QAM      | 1       | 0         | 19.14                 | 19.10                    | 19.00                  |                     |
| 5               | 16QAM      | 1       | 12        | 19.30                 | 19.28                    | 19.20                  |                     |
| 5               | 16QAM      | 1       | 24        | 19.22                 | 19.16                    | 19.10                  |                     |
| 5               | 16QAM      | 12      | 0         | 19.12                 | 19.05                    | 18.93                  | 20.5                |
| 5               | 16QAM      | 12      | 7         | 19.17                 | 19.14                    | 19.06                  |                     |
| 5               | 16QAM      | 12      | 13        | 19.16                 | 19.13                    | 19.01                  |                     |
| 5               | 16QAM      | 25      | 0         | 19.20                 | 19.15                    | 19.05                  |                     |
| 5               | 64QAM      | 1       | 0         | 18.82                 | 18.77                    | 18.66                  |                     |
| 5               | 64QAM      | 1       | 12        | 18.91                 | 18.85                    | 18.78                  | 20.5                |
| 5               | 64QAM      | 1       | 24        | 18.87                 | 18.82                    | 18.71                  |                     |
| 5               | 64QAM      | 12      | 0         | 19.18                 | 19.16                    | 19.05                  |                     |
| 5               | 64QAM      | 12      | 7         | 19.30                 | 19.24                    | 19.18                  |                     |
| 5               | 64QAM      | 12      | 13        | 19.21                 | 19.23                    | 19.10                  |                     |
| 5               | 64QAM      | 25      | 0         | 19.21                 | 19.24                    | 19.14                  |                     |



| Band 41_Ant 0   |            |         |           |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2500                | 2543.5                     | 2587                   | 2630.5                      | 2674                 |                     |
| 20              | QPSK       | 1       | 0         | 18.40               | 18.30                      | 18.07                  | 18.10                       | 17.92                | 19.5                |
| 20              | QPSK       | 1       | 49        | 18.41               | 18.34                      | 18.45                  | 18.38                       | 18.36                |                     |
| 20              | QPSK       | 1       | 99        | 18.34               | 18.34                      | 18.14                  | 17.95                       | 18.29                |                     |
| 20              | QPSK       | 50      | 0         | 18.48               | 18.36                      | 18.32                  | 18.29                       | 18.24                |                     |
| 20              | QPSK       | 50      | 24        | 18.48               | 18.45                      | 18.53                  | 18.37                       | 18.38                |                     |
| 20              | QPSK       | 50      | 50        | 18.41               | 18.45                      | 18.45                  | 18.31                       | 18.47                | 19.5                |
| 20              | QPSK       | 100     | 0         | 18.38               | 18.33                      | 18.42                  | 18.25                       | 18.29                |                     |
| 20              | 16QAM      | 1       | 0         | 18.61               | 18.37                      | 18.21                  | 18.23                       | 18.07                |                     |
| 20              | 16QAM      | 1       | 49        | 18.50               | 18.33                      | 18.56                  | 18.47                       | 18.46                |                     |
| 20              | 16QAM      | 1       | 99        | 18.47               | 18.41                      | 18.30                  | 18.05                       | 18.41                |                     |
| 20              | 16QAM      | 50      | 0         | 18.51               | 18.41                      | 18.37                  | 18.35                       | 18.27                | 19.5                |
| 20              | 16QAM      | 50      | 24        | 18.52               | 18.51                      | 18.54                  | 18.41                       | 18.42                |                     |
| 20              | 16QAM      | 50      | 50        | 18.49               | 18.52                      | 18.48                  | 18.34                       | 18.46                |                     |
| 20              | 16QAM      | 100     | 0         | 18.41               | 18.38                      | 18.46                  | 18.29                       | 18.33                |                     |
| 20              | 64QAM      | 1       | 0         | 18.31               | 18.43                      | 17.88                  | 17.92                       | 17.73                |                     |
| 20              | 64QAM      | 1       | 49        | 18.21               | 18.26                      | 18.34                  | 18.19                       | 18.25                | 19.5                |
| 20              | 64QAM      | 1       | 99        | 18.26               | 18.41                      | 18.04                  | 17.84                       | 18.21                |                     |
| 20              | 64QAM      | 50      | 0         | 18.52               | 18.43                      | 18.37                  | 18.34                       | 18.28                |                     |
| 20              | 64QAM      | 50      | 24        | 18.49               | 18.49                      | 18.56                  | 18.40                       | 18.44                |                     |
| 20              | 64QAM      | 50      | 50        | 18.45               | 18.59                      | 18.50                  | 18.33                       | 18.50                |                     |
| 20              | 64QAM      | 100     | 0         | 18.42               | 18.39                      | 18.46                  | 18.31                       | 18.34                | 19.5                |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |
| 15              | QPSK       | 1       | 0         | 18.39               | 18.13                      | 18.19                  | 18.10                       | 18.05                | 19.5                |
| 15              | QPSK       | 1       | 37        | 18.38               | 18.37                      | 18.37                  | 18.19                       | 18.31                |                     |
| 15              | QPSK       | 1       | 74        | 18.33               | 18.15                      | 18.25                  | 18.03                       | 18.30                |                     |
| 15              | QPSK       | 36      | 0         | 18.51               | 18.29                      | 18.35                  | 18.32                       | 18.27                |                     |
| 15              | QPSK       | 36      | 20        | 18.47               | 18.43                      | 18.55                  | 18.42                       | 18.47                |                     |
| 15              | QPSK       | 36      | 39        | 18.44               | 18.34                      | 18.47                  | 18.34                       | 18.46                | 19.5                |
| 15              | QPSK       | 75      | 0         | 18.42               | 18.37                      | 18.48                  | 18.37                       | 18.34                |                     |
| 15              | 16QAM      | 1       | 0         | 18.59               | 18.19                      | 18.37                  | 18.35                       | 18.28                |                     |
| 15              | 16QAM      | 1       | 37        | 18.47               | 18.30                      | 18.56                  | 18.56                       | 18.51                |                     |
| 15              | 16QAM      | 1       | 74        | 18.55               | 18.23                      | 18.45                  | 18.29                       | 18.51                |                     |
| 15              | 16QAM      | 36      | 0         | 18.47               | 18.31                      | 18.34                  | 18.31                       | 18.27                | 19.5                |
| 15              | 16QAM      | 36      | 20        | 18.47               | 18.45                      | 18.53                  | 18.44                       | 18.45                |                     |
| 15              | 16QAM      | 36      | 39        | 18.48               | 18.35                      | 18.50                  | 18.34                       | 18.45                |                     |
| 15              | 16QAM      | 75      | 0         | 18.46               | 18.44                      | 18.51                  | 18.40                       | 18.38                |                     |
| 15              | 64QAM      | 1       | 0         | 18.37               | 18.10                      | 18.06                  | 18.16                       | 17.92                |                     |
| 15              | 64QAM      | 1       | 37        | 18.28               | 18.31                      | 18.35                  | 18.28                       | 18.29                | 19.5                |
| 15              | 64QAM      | 1       | 74        | 18.30               | 18.14                      | 18.20                  | 18.09                       | 18.29                |                     |
| 15              | 64QAM      | 36      | 0         | 18.51               | 18.36                      | 18.40                  | 18.36                       | 18.32                |                     |
| 15              | 64QAM      | 36      | 20        | 18.54               | 18.50                      | 18.59                  | 18.47                       | 18.51                |                     |
| 15              | 64QAM      | 36      | 39        | 18.49               | 18.40                      | 18.53                  | 18.40                       | 18.51                |                     |
| 15              | 64QAM      | 75      | 0         | 18.46               | 18.42                      | 18.50                  | 18.43                       | 18.37                | 19.5                |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |
| 10              | QPSK       | 1       | 0         | 18.34               | 18.03                      | 18.10                  | 18.09                       | 17.95                | 19.5                |
| 10              | QPSK       | 1       | 25        | 18.30               | 18.36                      | 18.33                  | 18.12                       | 18.31                |                     |
| 10              | QPSK       | 1       | 49        | 18.33               | 18.12                      | 18.20                  | 18.01                       | 18.25                |                     |
| 10              | QPSK       | 25      | 0         | 18.51               | 18.19                      | 18.35                  | 18.30                       | 18.27                |                     |
| 10              | QPSK       | 25      | 12        | 18.37               | 18.35                      | 18.54                  | 18.38                       | 18.38                |                     |
| 10              | QPSK       | 25      | 25        | 18.36               | 18.25                      | 18.37                  | 18.27                       | 18.39                | 19.5                |
| 10              | QPSK       | 50      | 0         | 18.39               | 18.29                      | 18.45                  | 18.32                       | 18.26                |                     |
| 10              | 16QAM      | 1       | 0         | 18.54               | 18.12                      | 18.32                  | 18.33                       | 18.18                |                     |
| 10              | 16QAM      | 1       | 25        | 18.39               | 18.28                      | 18.52                  | 18.55                       | 18.44                |                     |
| 10              | 16QAM      | 1       | 49        | 18.53               | 18.14                      | 18.35                  | 18.28                       | 18.49                |                     |
| 10              | 16QAM      | 25      | 0         | 18.37               | 18.24                      | 18.28                  | 18.31                       | 18.17                | 19.5                |
| 10              | 16QAM      | 25      | 12        | 18.44               | 18.38                      | 18.43                  | 18.42                       | 18.39                |                     |
| 10              | 16QAM      | 25      | 25        | 18.47               | 18.33                      | 18.50                  | 18.33                       | 18.37                |                     |
| 10              | 16QAM      | 50      | 0         | 18.46               | 18.40                      | 18.42                  | 18.30                       | 18.28                |                     |
| 10              | 64QAM      | 1       | 0         | 18.28               | 18.09                      | 17.99                  | 18.08                       | 17.85                |                     |
| 10              | 64QAM      | 1       | 25        | 18.25               | 18.25                      | 18.28                  | 18.20                       | 18.19                | 19.5                |
| 10              | 64QAM      | 1       | 49        | 18.24               | 18.09                      | 18.11                  | 18.09                       | 18.24                |                     |
| 10              | 64QAM      | 25      | 0         | 18.47               | 18.28                      | 18.37                  | 18.31                       | 18.32                |                     |
| 10              | 64QAM      | 25      | 12        | 18.46               | 18.50                      | 18.51                  | 18.47                       | 18.49                |                     |
| 10              | 64QAM      | 25      | 25        | 18.46               | 18.36                      | 18.48                  | 18.36                       | 18.45                |                     |
| 10              | 64QAM      | 50      | 0         | 18.41               | 18.34                      | 18.45                  | 18.35                       | 18.37                | 19.5                |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.38                     | 2687.5               |                     |
| 5               | QPSK       | 1       | 0         | 18.28               | 18.09                      | 18.19                  | 18.22                       | 18.23                | 19.5                |
| 5               | QPSK       | 1       | 12        | 18.14               | 18.12                      | 18.22                  | 18.20                       | 18.20                |                     |
| 5               | QPSK       | 1       | 24        | 18.19               | 18.10                      | 18.17                  | 18.21                       | 18.15                |                     |
| 5               | QPSK       | 12      | 0         | 18.34               | 18.28                      | 18.28                  | 18.19                       | 18.28                |                     |
| 5               | QPSK       | 12      | 7         | 18.31               | 18.31                      | 18.35                  | 18.22                       | 18.31                |                     |
| 5               | QPSK       | 12      | 13        | 18.32               | 18.30                      | 18.30                  | 18.24                       | 18.25                | 19.5                |
| 5               | QPSK       | 25      | 0         | 18.28               | 18.29                      | 18.33                  | 18.18                       | 18.28                |                     |
| 5               | 16QAM      | 1       | 0         | 18.38               | 18.30                      | 18.30                  | 18.26                       | 18.31                |                     |
| 5               | 16QAM      | 1       | 12        | 18.38               | 18.38                      | 18.41                  | 18.31                       | 18.39                |                     |
| 5               | 16QAM      | 1       | 24        | 18.40               | 18.36                      | 18.38                  | 18.32                       | 18.31                |                     |
| 5               | 16QAM      | 12      | 0         | 18.32               | 18.24                      | 18.26                  | 18.17                       | 18.26                | 19.5                |
| 5               | 16QAM      | 12      | 7         | 18.34               | 18.32                      | 18.34                  | 18.21                       | 18.32                |                     |
| 5               | 16QAM      | 12      | 13        | 18.29               | 18.28                      | 18.32                  | 18.23                       | 18.22                |                     |
| 5               | 16QAM      | 25      | 0         | 18.33               | 18.36                      | 18.35                  | 18.23                       | 18.33                |                     |
| 5               | 64QAM      | 1       | 0         | 18.15               | 18.03                      | 18.09                  | 18.20                       | 18.09                |                     |
| 5               | 64QAM      | 1       | 12        | 18.13               | 18.25                      | 18.17                  | 18.09                       | 18.11                | 19.5                |
| 5               | 64QAM      | 1       | 24        | 18.12               | 18.23                      | 18.14                  | 18.17                       | 18.12                |                     |
| 5               | 64QAM      | 12      | 0         | 18.35               | 18.30                      | 18.32                  | 18.27                       | 18.34                |                     |
| 5               | 64QAM      | 12      | 7         | 18.38               | 18.37                      | 18.40                  | 18.27                       | 18.35                |                     |
| 5               | 64QAM      | 12      | 13        | 18.36               | 18.35                      | 18.39                  | 18.29                       | 18.33                |                     |
| 5               | 64QAM      | 25      | 0         | 18.38               | 18.34                      | 18.38                  | 18.25                       | 18.32                |                     |





| Band 41_Ant 0   |            |         |           |                     |                            |                        |                             |                      |                     |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|---------------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch [Freq] | Power Low Middle Ch [Freq] | Power Middle Ch [Freq] | Power High Middle Ch [Freq] | Power High Ch [Freq] | Tune-up limit (dBm) |                     |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |                     |  |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |                     |  |
| 20              | QPSK       | 1       | 0         | 18.29               | 18.26                      | 17.91                  | 17.99                       | 17.81                | 19.5                |                     |  |
| 20              | QPSK       | 1       | 49        | 18.23               | 18.22                      | 18.30                  | 18.19                       | 18.23                |                     |                     |  |
| 20              | QPSK       | 1       | 99        | 18.22               | 18.24                      | 18.02                  | 17.82                       | 18.17                |                     |                     |  |
| 20              | QPSK       | 50      | 0         | 18.45               | 18.32                      | 18.30                  | 18.29                       | 18.22                |                     |                     |  |
| 20              | QPSK       | 50      | 24        | 18.45               | 18.43                      | 18.52                  | 18.36                       | 18.36                | 19.5                |                     |  |
| 20              | QPSK       | 50      | 50        | 18.44               | 18.45                      | 18.43                  | 18.28                       | 18.45                |                     |                     |  |
| 20              | QPSK       | 100     | 0         | 18.35               | 18.30                      | 18.41                  | 18.24                       | 18.29                |                     |                     |  |
| 20              | 16QAM      | 1       | 0         | 18.74               | 18.68                      | 18.27                  | 18.39                       | 18.14                | 19.5                |                     |  |
| 20              | 16QAM      | 1       | 49        | 18.62               | 18.63                      | 18.68                  | 18.60                       | 18.64                |                     |                     |  |
| 20              | 16QAM      | 1       | 99        | 18.64               | 18.71                      | 18.40                  | 18.21                       | 18.52                |                     |                     |  |
| 20              | 16QAM      | 50      | 0         | 18.50               | 18.42                      | 18.35                  | 18.34                       | 18.27                |                     |                     |  |
| 20              | 16QAM      | 50      | 24        | 18.49               | 18.50                      | 18.55                  | 18.39                       | 18.41                | 19.5                |                     |  |
| 20              | 16QAM      | 50      | 50        | 18.44               | 18.48                      | 18.47                  | 18.33                       | 18.49                |                     |                     |  |
| 20              | 16QAM      | 100     | 0         | 18.39               | 18.37                      | 18.46                  | 18.29                       | 18.35                |                     |                     |  |
| 20              | 64QAM      | 1       | 0         | 18.62               | 18.58                      | 18.13                  | 18.18                       | 18.00                | 19.5                |                     |  |
| 20              | 64QAM      | 1       | 49        | 18.47               | 18.47                      | 18.55                  | 18.44                       | 18.49                |                     |                     |  |
| 20              | 64QAM      | 1       | 99        | 18.55               | 18.60                      | 18.27                  | 18.05                       | 18.43                |                     |                     |  |
| 20              | 64QAM      | 50      | 0         | 18.50               | 18.41                      | 18.36                  | 18.34                       | 18.25                |                     |                     |  |
| 20              | 64QAM      | 50      | 24        | 18.47               | 18.47                      | 18.57                  | 18.40                       | 18.42                | 19.5                |                     |  |
| 20              | 64QAM      | 50      | 50        | 18.43               | 18.47                      | 18.50                  | 18.31                       | 18.49                |                     |                     |  |
| 20              | 64QAM      | 100     | 0         | 18.40               | 18.39                      | 18.45                  | 18.30                       | 18.33                |                     |                     |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |                     |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |                     |  |
| 15              | QPSK       | 1       | 0         | 18.33               | 18.06                      | 18.12                  | 18.05                       | 17.97                | 19.5                |                     |  |
| 15              | QPSK       | 1       | 37        | 18.27               | 18.30                      | 18.33                  | 18.17                       | 18.27                |                     |                     |  |
| 15              | QPSK       | 1       | 74        | 18.27               | 18.05                      | 18.18                  | 17.97                       | 18.24                |                     |                     |  |
| 15              | QPSK       | 36      | 0         | 18.49               | 18.26                      | 18.33                  | 18.33                       | 18.24                |                     |                     |  |
| 15              | QPSK       | 36      | 20        | 18.44               | 18.38                      | 18.50                  | 18.44                       | 18.47                | 19.5                |                     |  |
| 15              | QPSK       | 36      | 39        | 18.43               | 18.31                      | 18.46                  | 18.32                       | 18.42                |                     |                     |  |
| 15              | QPSK       | 75      | 0         | 18.41               | 18.32                      | 18.43                  | 18.35                       | 18.31                |                     |                     |  |
| 15              | 16QAM      | 1       | 0         | 18.67               | 18.42                      | 18.43                  | 18.54                       | 18.37                |                     |                     |  |
| 15              | 16QAM      | 1       | 37        | 18.63               | 18.54                      | 18.69                  | 18.70                       | 18.62                | 19.5                |                     |  |
| 15              | 16QAM      | 1       | 74        | 18.66               | 18.36                      | 18.57                  | 18.45                       | 18.62                |                     |                     |  |
| 15              | 16QAM      | 36      | 0         | 18.48               | 18.29                      | 18.35                  | 18.30                       | 18.25                |                     |                     |  |
| 15              | 16QAM      | 36      | 20        | 18.46               | 18.43                      | 18.50                  | 18.40                       | 18.46                |                     |                     |  |
| 15              | 16QAM      | 36      | 39        | 18.45               | 18.36                      | 18.47                  | 18.33                       | 18.43                | 19.5                |                     |  |
| 15              | 16QAM      | 75      | 0         | 18.44               | 18.39                      | 18.49                  | 18.40                       | 18.34                |                     |                     |  |
| 15              | 64QAM      | 1       | 0         | 18.61               | 18.32                      | 18.26                  | 18.36                       | 18.17                |                     |                     |  |
| 15              | 64QAM      | 1       | 37        | 18.62               | 18.57                      | 18.61                  | 18.54                       | 18.51                |                     |                     |  |
| 15              | 64QAM      | 1       | 74        | 18.55               | 18.37                      | 18.44                  | 18.29                       | 18.51                | 19.5                |                     |  |
| 15              | 64QAM      | 36      | 0         | 18.50               | 18.30                      | 18.38                  | 18.37                       | 18.30                |                     |                     |  |
| 15              | 64QAM      | 36      | 20        | 18.49               | 18.46                      | 18.56                  | 18.46                       | 18.49                |                     |                     |  |
| 15              | 64QAM      | 36      | 39        | 18.48               | 18.38                      | 18.52                  | 18.35                       | 18.48                |                     |                     |  |
| 15              | 64QAM      | 75      | 0         | 18.44               | 18.41                      | 18.48                  | 18.41                       | 18.33                | Tune-up limit (dBm) |                     |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |                     |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |                     |  |
| 10              | QPSK       | 1       | 0         | 18.18               | 17.80                      | 17.88                  | 17.78                       | 17.79                | 19.5                |                     |  |
| 10              | QPSK       | 1       | 25        | 18.07               | 18.01                      | 18.12                  | 18.09                       | 18.05                |                     |                     |  |
| 10              | QPSK       | 1       | 49        | 18.15               | 17.84                      | 17.88                  | 17.91                       | 17.88                |                     |                     |  |
| 10              | QPSK       | 25      | 0         | 18.26               | 18.12                      | 18.19                  | 18.09                       | 18.14                |                     |                     |  |
| 10              | QPSK       | 25      | 12        | 18.28               | 18.27                      | 18.33                  | 18.17                       | 18.31                | 19.5                |                     |  |
| 10              | QPSK       | 25      | 25        | 18.25               | 18.19                      | 18.22                  | 18.16                       | 18.17                |                     |                     |  |
| 10              | QPSK       | 50      | 0         | 18.21               | 18.19                      | 18.27                  | 18.11                       | 18.20                |                     |                     |  |
| 10              | 16QAM      | 1       | 0         | 18.53               | 18.17                      | 18.25                  | 18.17                       | 18.20                |                     |                     |  |
| 10              | 16QAM      | 1       | 25        | 18.44               | 18.41                      | 18.50                  | 18.39                       | 18.43                | 19.5                |                     |  |
| 10              | 16QAM      | 1       | 49        | 18.46               | 18.16                      | 18.25                  | 18.17                       | 18.19                |                     |                     |  |
| 10              | 16QAM      | 25      | 12        | 18.37               | 18.37                      | 18.39                  | 18.27                       | 18.36                |                     |                     |  |
| 10              | 16QAM      | 25      | 25        | 18.35               | 18.24                      | 18.28                  | 18.22                       | 18.22                |                     |                     |  |
| 10              | 16QAM      | 50      | 0         | 18.26               | 18.26                      | 18.35                  | 18.15                       | 18.25                | 19.5                |                     |  |
| 10              | 64QAM      | 1       | 0         | 18.48               | 18.21                      | 18.12                  | 18.10                       | 18.05                |                     |                     |  |
| 10              | 64QAM      | 1       | 25        | 18.45               | 18.55                      | 18.49                  | 18.45                       | 18.39                |                     |                     |  |
| 10              | 64QAM      | 1       | 49        | 18.37               | 18.20                      | 18.18                  | 18.12                       | 18.12                |                     |                     |  |
| 10              | 64QAM      | 25      | 0         | 18.39               | 18.22                      | 18.26                  | 18.19                       | 18.22                | 19.5                |                     |  |
| 10              | 64QAM      | 25      | 12        | 18.44               | 18.42                      | 18.45                  | 18.31                       | 18.41                |                     |                     |  |
| 10              | 64QAM      | 25      | 25        | 18.40               | 18.29                      | 18.34                  | 18.25                       | 18.27                |                     |                     |  |
| 10              | 64QAM      | 50      | 0         | 18.26               | 18.24                      | 18.31                  | 18.14                       | 18.24                |                     | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39675               | 40146                      | 40620                  | 41093                       | 41565                |                     |                     |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.39                     | 2687.5               |                     |                     |  |
| 5               | QPSK       | 1       | 0         | 18.17               | 18.03                      | 18.10                  | 18.07                       | 18.09                | 19.5                |                     |  |
| 5               | QPSK       | 1       | 12        | 18.09               | 18.05                      | 18.14                  | 18.11                       | 18.10                |                     |                     |  |
| 5               | QPSK       | 1       | 24        | 18.10               | 18.04                      | 18.10                  | 18.11                       | 18.06                |                     |                     |  |
| 5               | QPSK       | 12      | 0         | 18.31               | 18.20                      | 18.25                  | 18.19                       | 18.28                |                     |                     |  |
| 5               | QPSK       | 12      | 7         | 18.30               | 18.29                      | 18.35                  | 18.20                       | 18.28                | 19.5                |                     |  |
| 5               | QPSK       | 12      | 13        | 18.30               | 18.25                      | 18.28                  | 18.23                       | 18.26                |                     |                     |  |
| 5               | QPSK       | 25      | 0         | 18.24               | 18.24                      | 18.29                  | 18.11                       | 18.25                |                     |                     |  |
| 5               | 16QAM      | 1       | 0         | 18.46               | 18.33                      | 18.39                  | 18.21                       | 18.42                |                     |                     |  |
| 5               | 16QAM      | 1       | 12        | 18.38               | 18.38                      | 18.43                  | 18.22                       | 18.36                | 19.5                |                     |  |
| 5               | 16QAM      | 1       | 24        | 18.43               | 18.40                      | 18.44                  | 18.28                       | 18.34                |                     |                     |  |
| 5               | 16QAM      | 12      | 0         | 18.33               | 18.26                      | 18.28                  | 18.20                       | 18.32                |                     |                     |  |
| 5               | 16QAM      | 12      | 7         | 18.38               | 18.30                      | 18.35                  | 18.24                       | 18.32                |                     |                     |  |
| 5               | 16QAM      | 12      | 13        | 18.33               | 18.31                      | 18.38                  | 18.27                       | 18.28                | 19.5                |                     |  |
| 5               | 16QAM      | 25      | 0         | 18.35               | 18.34                      | 18.36                  | 18.22                       | 18.32                |                     |                     |  |
| 5               | 64QAM      | 1       | 0         | 18.37               | 18.29                      | 18.30                  | 18.25                       | 18.31                |                     |                     |  |
| 5               | 64QAM      | 1       | 12        | 18.37               | 18.40                      | 18.37                  | 18.32                       | 18.30                |                     |                     |  |
| 5               | 64QAM      | 1       | 24        | 18.36               | 18.34                      | 18.38                  | 18.28                       | 18.25                | 19.5                |                     |  |
| 5               | 64QAM      | 12      | 0         | 18.38               | 18.28                      | 18.33                  | 18.26                       | 18.31                |                     |                     |  |
| 5               | 64QAM      | 12      | 7         | 18.40               | 18.36                      | 18.40                  | 18.29                       | 18.34                |                     |                     |  |
| 5               | 64QAM      | 12      | 13        | 18.33               | 18.35                      | 18.37                  | 18.30                       | 18.29                |                     |                     |  |
| 5               | 64QAM      | 25      | 0         | 18.33               | 18.33                      | 18.40                  | 18.22                       | 18.31                |                     |                     |  |

1. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
2. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
3. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
4. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
  - a. When the reported SAR of the initial test position is  $\leq 0.4$  W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band
  - b. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
  - c. For all positions/configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
5. Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA), and the SU maximum power also higher than RU (OFDMA)
6. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
7. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
8. When SAR testing for 802.11ax is required
  - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
  - b. Otherwise, consider the fully allocated channel for SAR testing
  - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel



| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 2.4GHz WLAN         | 802.11b 1Mbps       | 1       | 2412            | 16.40               | 17.00         | 16.30               | 17.00         | 19.36               | 20.00         | 100.00       |
|                     |                     | 6       | 2437            | 16.80               | 17.00         | 16.50               | 17.00         | 19.86               | 20.00         |              |
|                     |                     | 11      | 2462            | 16.60               | 17.00         | 16.40               | 17.00         | 19.76               | 20.00         |              |
|                     | 802.11g 6Mbps       | 1       | 2412            | 16.20               | 16.50         | 16.00               | 16.50         | 19.11               | 19.50         | 99.25        |
|                     |                     | 6       | 2437            | 16.10               | 16.50         | 15.90               | 16.50         | 19.21               | 19.50         |              |
|                     |                     | 11      | 2462            | 16.00               | 16.50         | 16.20               | 16.50         | 19.07               | 19.50         |              |
|                     | 802.11n-HT20 MCS0   | 1       | 2412            | 16.10               | 16.50         | 16.20               | 16.50         | 19.16               | 19.50         | 99.24        |
|                     |                     | 6       | 2437            | 16.00               | 16.50         | 16.10               | 16.50         | 19.11               | 19.50         |              |
|                     |                     | 11      | 2462            | 16.00               | 16.50         | 15.90               | 16.50         | 18.91               | 19.50         |              |
|                     | 802.11ac-VHT20 MCS0 | 1       | 2412            | 16.20               | 16.50         | 16.20               | 16.50         | 19.26               | 19.50         | 99.24        |
|                     |                     | 6       | 2437            | 16.00               | 16.50         | 16.00               | 16.50         | 19.21               | 19.50         |              |
|                     |                     | 11      | 2462            | 16.00               | 16.50         | 16.00               | 16.50         | 19.12               | 19.50         |              |
|                     | 802.11ax-HE20 MCS0  | 1       | 2412            | 16.20               | 16.50         | 16.20               | 16.50         | 19.26               | 19.50         | 98.69        |
|                     |                     | 6       | 2437            | 16.00               | 16.50         | 16.00               | 16.50         | 19.21               | 19.50         |              |
|                     |                     | 11      | 2462            | 16.00               | 16.50         | 16.00               | 16.50         | 19.12               | 19.50         |              |

| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.2GHz WLAN         | 802.11a 6Mbps       | 36      | 5180            | 11.80               | 12.00         | 11.50               | 12.00         | 14.82               | 15.00         | 99.00        |
|                     |                     | 40      | 5200            | 11.70               | 12.00         | 11.50               | 12.00         | 14.87               | 15.00         |              |
|                     |                     | 44      | 5220            | 11.60               | 12.00         | 11.50               | 12.00         | 14.77               | 15.00         |              |
|                     |                     | 48      | 5240            | 11.70               | 12.00         | 11.80               | 12.00         | 14.72               | 15.00         |              |
|                     | 802.11n-HT20 MCS0   | 36      | 5180            | 11.40               | 12.00         | 11.30               | 12.00         | 14.46               | 15.00         | 98.99        |
|                     |                     | 40      | 5200            | 11.40               | 12.00         | 11.20               | 12.00         | 14.42               | 15.00         |              |
|                     |                     | 44      | 5220            | 11.40               | 12.00         | 11.20               | 12.00         | 14.42               | 15.00         |              |
|                     |                     | 48      | 5240            | 11.20               | 12.00         | 11.10               | 12.00         | 14.69               | 15.00         |              |
|                     | 802.11n-HT40 MCS0   | 38      | 5190            | 10.10               | 11.00         | 10.30               | 11.00         | 13.42               | 14.00         | 98.47        |
|                     |                     | 46      | 5230            | 11.90               | 13.00         | 11.80               | 13.00         | 14.97               | 16.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 36      | 5180            | 11.30               | 12.00         | 11.30               | 12.00         | 14.36               | 15.00         | 98.99        |
|                     |                     | 40      | 5200            | 11.30               | 12.00         | 11.30               | 12.00         | 14.36               | 15.00         |              |
|                     |                     | 44      | 5220            | 11.40               | 12.00         | 11.30               | 12.00         | 14.42               | 15.00         |              |
|                     |                     | 48      | 5240            | 11.20               | 12.00         | 11.20               | 12.00         | 14.44               | 15.00         |              |
|                     | 802.11ac-VHT40 MCS0 | 38      | 5190            | 10.50               | 11.00         | 10.30               | 11.00         | 13.44               | 14.00         | 98.48        |
|                     |                     | 46      | 5230            | 11.70               | 13.00         | 11.70               | 13.00         | 14.97               | 16.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 42      | 5210            | 9.70                | 10.00         | 9.70                | 10.00         | 12.78               | 13.00         | 96.28        |
|                     | 802.11ax-HE20 MCS0  | 36      | 5180            | 11.30               | 12.00         | 11.30               | 12.00         | 14.36               | 15.00         | 98.69        |
|                     |                     | 40      | 5200            | 11.30               | 12.00         | 11.30               | 12.00         | 14.36               | 15.00         |              |
|                     |                     | 44      | 5220            | 11.40               | 12.00         | 11.30               | 12.00         | 14.42               | 15.00         |              |
|                     |                     | 48      | 5240            | 11.20               | 12.00         | 11.20               | 12.00         | 14.44               | 15.00         |              |
|                     | 802.11ax-HE40 MCS0  | 38      | 5190            | 10.50               | 11.00         | 10.30               | 11.00         | 13.44               | 14.00         | 98.12        |
|                     |                     | 46      | 5230            | 11.70               | 13.00         | 11.70               | 13.00         | 14.97               | 16.00         |              |
|                     | 802.11ax-HE80 MCS0  | 42      | 5210            | 9.70                | 10.00         | 9.70                | 10.00         | 12.78               | 13.00         | 95.73        |



| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.3GHz WLAN         | 802.11a 6Mbps       | 52      | 5260            | 11.60               | 12.00         | 11.70               | 12.00         | 14.67               | 15.00         | 99.00        |
|                     |                     | 56      | 5280            | 11.50               | 12.00         | 11.70               | 12.00         | 14.62               | 15.00         |              |
|                     |                     | 60      | 5300            | 11.60               | 12.00         | 11.60               | 12.00         | 14.74               | 15.00         |              |
|                     |                     | 64      | 5320            | 11.70               | 12.00         | 11.70               | 12.00         | 14.84               | 15.00         |              |
|                     | 802.11n-HT20 MCS0   | 52      | 5260            | 11.70               | 12.50         | 11.70               | 12.50         | 14.87               | 15.50         | 98.99        |
|                     |                     | 56      | 5280            | 11.60               | 12.50         | 11.60               | 12.50         | 14.77               | 15.50         |              |
|                     |                     | 60      | 5300            | 11.50               | 12.50         | 12.00               | 12.50         | 15.07               | 15.50         |              |
|                     |                     | 64      | 5320            | 11.50               | 12.50         | 12.00               | 12.50         | 15.15               | 15.50         |              |
|                     | 802.11n-HT40 MCS0   | 54      | 5270            | 11.80               | 13.00         | 11.80               | 13.00         | 14.87               | 16.00         | 98.47        |
|                     |                     | 62      | 5310            | 10.50               | 11.00         | 10.30               | 11.00         | 13.60               | 14.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 52      | 5260            | 11.70               | 12.50         | 11.60               | 12.50         | 15.01               | 15.50         | 98.99        |
|                     |                     | 56      | 5280            | 11.50               | 12.50         | 11.70               | 12.50         | 14.96               | 15.50         |              |
|                     |                     | 60      | 5300            | 12.00               | 12.50         | 11.90               | 12.50         | 15.12               | 15.50         |              |
|                     |                     | 64      | 5320            | 12.00               | 12.50         | 12.10               | 12.50         | 15.22               | 15.50         |              |
|                     | 802.11ac-VHT40 MCS0 | 54      | 5270            | 11.80               | 13.00         | 11.70               | 13.00         | 15.01               | 16.00         | 98.48        |
|                     |                     | 62      | 5310            | 10.40               | 11.00         | 10.40               | 11.00         | 13.64               | 14.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 58      | 5290            | 8.80                | 9.50          | 8.50                | 9.50          | 11.91               | 12.50         | 96.28        |
|                     | 802.11ax-HE20 MCS0  | 52      | 5260            | 11.70               | 12.50         | 11.60               | 12.50         | 15.01               | 15.50         | 98.69        |
|                     |                     | 56      | 5280            | 11.50               | 12.50         | 11.70               | 12.50         | 14.96               | 15.50         |              |
|                     |                     | 60      | 5300            | 12.00               | 12.50         | 11.90               | 12.50         | 15.12               | 15.50         |              |
|                     |                     | 64      | 5320            | 12.00               | 12.50         | 12.10               | 12.50         | 15.22               | 15.50         |              |
|                     | 802.11ax-HE40 MCS0  | 54      | 5270            | 11.80               | 13.00         | 11.70               | 13.00         | 15.01               | 16.00         | 98.12        |
|                     |                     | 62      | 5310            | 10.40               | 11.00         | 10.40               | 11.00         | 13.64               | 14.00         |              |
|                     | 802.11ax-HE80 MCS0  | 58      | 5290            | 8.80                | 9.50          | 8.50                | 9.50          | 11.91               | 12.50         | 95.73        |



| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.5GHz WLAN         | 802.11a 6Mbps       | 100     | 5500            | 11.90               | 12.50         | 11.80               | 12.50         | 15.14               | 15.50         | 99.00        |
|                     |                     | 116     | 5580            | 11.80               | 12.50         | 11.80               | 12.50         | 15.04               | 15.50         |              |
|                     |                     | 124     | 5620            | 11.80               | 12.50         | 11.60               | 12.50         | 14.94               | 15.50         |              |
|                     |                     | 132     | 5660            | 11.70               | 12.50         | 11.70               | 12.50         | 14.99               | 15.50         |              |
|                     |                     | 144     | 5720            | 11.80               | 12.50         | 11.80               | 12.50         | 14.88               | 15.50         |              |
|                     | 802.11n-HT20 MCS0   | 100     | 5500            | 12.10               | 12.50         | 11.90               | 12.50         | 15.21               | 15.50         | 98.99        |
|                     |                     | 116     | 5580            | 11.90               | 12.50         | 11.70               | 12.50         | 14.91               | 15.50         |              |
|                     |                     | 124     | 5620            | 11.80               | 12.50         | 11.70               | 12.50         | 14.81               | 15.50         |              |
|                     |                     | 132     | 5660            | 11.80               | 12.50         | 11.70               | 12.50         | 14.76               | 15.50         |              |
|                     |                     | 144     | 5720            | 11.90               | 12.50         | 11.70               | 12.50         | 15.04               | 15.50         |              |
|                     | 802.11n-HT40 MCS0   | 102     | 5510            | 11.50               | 12.00         | 10.40               | 12.00         | 14.54               | 15.00         | 98.47        |
|                     |                     | 110     | 5550            | 11.90               | 13.00         | 11.90               | 13.00         | 14.41               | 16.00         |              |
|                     |                     | 126     | 5630            | 11.70               | 13.00         | 11.70               | 13.00         | 14.36               | 16.00         |              |
|                     |                     | 134     | 5670            | 11.70               | 13.00         | 11.70               | 13.00         | 14.31               | 16.00         |              |
|                     |                     | 142     | 5710            | 11.80               | 13.00         | 11.80               | 13.00         | 14.31               | 16.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 100     | 5500            | 12.30               | 12.50         | 12.00               | 12.50         | 15.11               | 15.50         | 98.99        |
|                     |                     | 116     | 5580            | 12.00               | 12.50         | 11.90               | 12.50         | 15.07               | 15.50         |              |
|                     |                     | 124     | 5620            | 11.70               | 12.50         | 11.20               | 12.50         | 15.02               | 15.50         |              |
|                     |                     | 132     | 5660            | 11.80               | 12.50         | 11.70               | 12.50         | 14.92               | 15.50         |              |
|                     |                     | 144     | 5720            | 11.80               | 12.50         | 11.70               | 12.50         | 14.89               | 15.50         |              |
|                     | 802.11ac-VHT40 MCS0 | 102     | 5510            | 11.60               | 12.00         | 11.40               | 12.00         | 14.61               | 15.00         | 98.48        |
|                     |                     | 110     | 5550            | 11.90               | 13.00         | 11.80               | 13.00         | 14.56               | 16.00         |              |
|                     |                     | 126     | 5630            | 12.00               | 13.00         | 11.70               | 13.00         | 14.41               | 16.00         |              |
|                     |                     | 134     | 5670            | 11.80               | 13.00         | 11.80               | 13.00         | 14.37               | 16.00         |              |
|                     |                     | 142     | 5710            | 11.90               | 13.00         | 11.70               | 13.00         | 14.37               | 16.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 106     | 5530            | 9.70                | 10.50         | 9.70                | 10.50         | 12.97               | 13.50         | 96.28        |
|                     |                     | 122     | 5610            | 11.70               | 13.00         | 11.70               | 13.00         | 14.82               | 16.00         |              |
|                     |                     | 138     | 5690            | 11.80               | 13.00         | 11.60               | 13.00         | 14.77               | 16.00         |              |
|                     | 802.11ax-HE20 MCS0  | 100     | 5500            | 12.30               | 12.50         | 12.00               | 12.50         | 15.11               | 15.50         | 98.69        |
|                     |                     | 116     | 5580            | 12.00               | 12.50         | 11.90               | 12.50         | 15.07               | 15.50         |              |
|                     |                     | 124     | 5620            | 11.70               | 12.50         | 11.20               | 12.50         | 15.02               | 15.50         |              |
|                     |                     | 132     | 5660            | 11.80               | 12.50         | 11.70               | 12.50         | 14.92               | 15.50         |              |
|                     |                     | 144     | 5720            | 11.80               | 12.50         | 11.70               | 12.50         | 14.89               | 15.50         |              |
|                     | 802.11ax-HE40 MCS0  | 102     | 5510            | 11.60               | 12.00         | 11.40               | 12.00         | 14.61               | 15.00         | 98.12        |
|                     |                     | 110     | 5550            | 11.90               | 13.00         | 11.80               | 13.00         | 14.56               | 16.00         |              |
|                     |                     | 126     | 5630            | 12.00               | 13.00         | 11.70               | 13.00         | 14.41               | 16.00         |              |
|                     |                     | 134     | 5670            | 11.80               | 13.00         | 11.80               | 13.00         | 14.37               | 16.00         |              |
|                     |                     | 142     | 5710            | 11.90               | 13.00         | 11.70               | 13.00         | 14.37               | 16.00         |              |
|                     | 802.11ax-HE80 MCS0  | 106     | 5530            | 9.70                | 10.50         | 9.70                | 10.50         | 12.97               | 13.50         | 95.73        |
|                     |                     | 122     | 5610            | 11.70               | 13.00         | 11.70               | 13.00         | 14.82               | 16.00         |              |
|                     |                     | 138     | 5690            | 11.80               | 13.00         | 11.60               | 13.00         | 14.77               | 16.00         |              |



| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.8GHz WLAN         | 802.11a 6Mbps       | 149     | 5745            | 12.00               | 13.00         | 11.90               | 13.00         | 15.10               | 16.00         | 99.00        |
|                     |                     | 157     | 5785            | 11.90               | 13.00         | 11.80               | 13.00         | 15.14               | 16.00         |              |
|                     |                     | 165     | 5825            | 11.90               | 13.00         | 12.00               | 13.00         | 15.18               | 16.00         |              |
|                     | 802.11n-HT20 MCS0   | 149     | 5745            | 11.80               | 13.00         | 11.70               | 13.00         | 14.98               | 16.00         | 98.99        |
|                     |                     | 157     | 5785            | 11.80               | 13.00         | 11.90               | 13.00         | 15.08               | 16.00         |              |
|                     |                     | 165     | 5825            | 11.70               | 13.00         | 11.80               | 13.00         | 14.98               | 16.00         |              |
|                     | 802.11n-HT40 MCS0   | 151     | 5755            | 11.80               | 13.00         | 11.80               | 13.00         | 15.04               | 16.00         | 98.47        |
|                     |                     | 159     | 5795            | 11.80               | 13.00         | 12.00               | 13.00         | 15.01               | 16.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 149     | 5745            | 11.80               | 13.00         | 11.70               | 13.00         | 15.04               | 16.00         | 98.99        |
|                     |                     | 157     | 5785            | 11.80               | 13.00         | 12.00               | 13.00         | 15.12               | 16.00         |              |
|                     |                     | 165     | 5825            | 11.70               | 13.00         | 11.80               | 13.00         | 15.04               | 16.00         |              |
|                     | 802.11ac-VHT40 MCS0 | 151     | 5755            | 11.80               | 13.00         | 11.80               | 13.00         | 15.08               | 16.00         | 98.48        |
|                     |                     | 159     | 5795            | 11.80               | 13.00         | 12.00               | 13.00         | 15.07               | 16.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 155     | 5775            | 11.70               | 13.00         | 12.00               | 13.00         | 15.04               | 16.00         | 96.28        |
|                     | 802.11ax-HE20 MCS0  | 149     | 5745            | 11.90               | 13.00         | 11.90               | 13.00         | 15.10               | 16.00         | 98.69        |
|                     |                     | 157     | 5785            | 11.90               | 13.00         | 11.80               | 13.00         | 15.14               | 16.00         |              |
|                     |                     | 165     | 5825            | 11.90               | 13.00         | 11.70               | 13.00         | 15.18               | 16.00         |              |
|                     | 802.11ax-HE40 MCS0  | 151     | 5755            | 11.80               | 13.00         | 12.10               | 13.00         | 15.10               | 16.00         | 98.12        |
|                     |                     | 159     | 5795            | 12.10               | 13.00         | 11.90               | 13.00         | 15.22               | 16.00         |              |
|                     | 802.11ax-HE80 MCS0  | 155     | 5775            | 11.80               | 13.00         | 12.00               | 13.00         | 15.16               | 16.00         | 95.73        |

| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 2.4GHz WLAN         | 802.11b 1Mbps       | 1       | 2412            | 14.40               | 15.00         | 14.30               | 15.00         | 17.51               | 18.00         | 100.00       |
|                     |                     | 6       | 2437            | 14.80               | 15.00         | 14.40               | 15.00         | 17.76               | 18.00         |              |
|                     |                     | 11      | 2462            | 14.60               | 15.00         | 14.50               | 15.00         | 17.71               | 18.00         |              |
|                     | 802.11g 6Mbps       | 1       | 2412            | 14.10               | 14.50         | 14.00               | 14.50         | 17.06               | 17.50         | 99.25        |
|                     |                     | 6       | 2437            | 14.20               | 14.50         | 13.90               | 14.50         | 17.11               | 17.50         |              |
|                     |                     | 11      | 2462            | 13.90               | 14.50         | 13.90               | 14.50         | 17.11               | 17.50         |              |
|                     | 802.11n-HT20 MCS0   | 1       | 2412            | 14.10               | 14.50         | 13.90               | 14.50         | 17.21               | 17.50         | 99.24        |
|                     |                     | 6       | 2437            | 14.10               | 14.50         | 13.90               | 14.50         | 17.11               | 17.50         |              |
|                     |                     | 11      | 2462            | 13.80               | 14.50         | 14.00               | 14.50         | 16.97               | 17.50         |              |
|                     | 802.11ac-VHT20 MCS0 | 1       | 2412            | 14.00               | 14.50         | 13.80               | 14.50         | 17.11               | 17.50         | 99.24        |
|                     |                     | 6       | 2437            | 14.00               | 14.50         | 13.80               | 14.50         | 17.01               | 17.50         |              |
|                     |                     | 11      | 2462            | 13.70               | 14.50         | 13.90               | 14.50         | 16.87               | 17.50         |              |
|                     | 802.11ax-HE20 MCS0  | 1       | 2412            | 14.00               | 14.50         | 13.80               | 14.50         | 17.11               | 17.50         | 98.69        |
|                     |                     | 6       | 2437            | 14.00               | 14.50         | 13.80               | 14.50         | 17.01               | 17.50         |              |
|                     |                     | 11      | 2462            | 13.70               | 14.50         | 13.90               | 14.50         | 16.87               | 17.50         |              |

| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.2GHz WLAN         | 802.11a 6Mbps       | 36      | 5180            | 9.80                | 10.00         | 9.40                | 10.00         | 12.78               | 13.00         | 99.00        |
|                     |                     | 40      | 5200            | 9.60                | 10.00         | 9.30                | 10.00         | 12.63               | 13.00         |              |
|                     |                     | 44      | 5220            | 9.60                | 10.00         | 9.50                | 10.00         | 12.68               | 13.00         |              |
|                     |                     | 48      | 5240            | 9.70                | 10.00         | 9.80                | 10.00         | 12.84               | 13.00         |              |
|                     | 802.11n-HT20 MCS0   | 36      | 5180            | 9.30                | 10.00         | 9.20                | 10.00         | 12.26               | 13.00         | 98.99        |
|                     |                     | 40      | 5200            | 9.40                | 10.00         | 9.10                | 10.00         | 12.32               | 13.00         |              |
|                     |                     | 44      | 5220            | 9.30                | 10.00         | 9.30                | 10.00         | 12.27               | 13.00         |              |
|                     |                     | 48      | 5240            | 9.20                | 10.00         | 9.00                | 10.00         | 12.37               | 13.00         |              |
|                     | 802.11n-HT40 MCS0   | 38      | 5190            | 8.40                | 9.00          | 8.10                | 9.00          | 11.42               | 12.00         | 98.47        |
|                     |                     | 46      | 5230            | 9.70                | 11.00         | 9.70                | 11.00         | 12.91               | 14.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 36      | 5180            | 9.20                | 10.00         | 9.10                | 10.00         | 12.16               | 13.00         | 98.99        |
|                     |                     | 40      | 5200            | 9.30                | 10.00         | 9.20                | 10.00         | 12.38               | 13.00         |              |
|                     |                     | 44      | 5220            | 9.20                | 10.00         | 9.20                | 10.00         | 12.17               | 13.00         |              |
|                     |                     | 48      | 5240            | 9.10                | 10.00         | 8.90                | 10.00         | 12.27               | 13.00         |              |
|                     | 802.11ac-VHT40 MCS0 | 38      | 5190            | 8.30                | 9.00          | 8.00                | 9.00          | 11.32               | 12.00         | 98.48        |
|                     |                     | 46      | 5230            | 9.60                | 11.00         | 9.60                | 11.00         | 12.81               | 14.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 42      | 5210            | 7.70                | 8.00          | 7.70                | 8.00          | 10.78               | 11.00         | 96.28        |
|                     | 802.11ax-HE20 MCS0  | 36      | 5180            | 9.20                | 10.00         | 9.10                | 10.00         | 12.16               | 13.00         | 98.69        |
|                     |                     | 40      | 5200            | 9.30                | 10.00         | 9.20                | 10.00         | 12.38               | 13.00         |              |
|                     |                     | 44      | 5220            | 9.20                | 10.00         | 9.20                | 10.00         | 12.17               | 13.00         |              |
|                     |                     | 48      | 5240            | 9.10                | 10.00         | 8.90                | 10.00         | 12.27               | 13.00         |              |
|                     | 802.11ax-HE40 MCS0  | 38      | 5190            | 8.30                | 9.00          | 8.00                | 9.00          | 11.32               | 12.00         | 98.12        |
|                     |                     | 46      | 5230            | 9.60                | 11.00         | 9.60                | 11.00         | 12.81               | 14.00         |              |
|                     | 802.11ax-HE80 MCS0  | 42      | 5210            | 7.70                | 8.00          | 7.70                | 8.00          | 10.78               | 11.00         | 95.73        |



| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.3GHz WLAN         | 802.11a 6Mbps       | 52      | 5260            | 9.60                | 10.00         | 9.80                | 10.00         | 12.72               | 13.00         | 99.00        |
|                     |                     | 56      | 5280            | 9.50                | 10.00         | 9.60                | 10.00         | 12.62               | 13.00         |              |
|                     |                     | 60      | 5300            | 9.50                | 10.00         | 9.60                | 10.00         | 12.94               | 13.00         |              |
|                     |                     | 64      | 5320            | 9.70                | 10.00         | 9.60                | 10.00         | 12.88               | 13.00         |              |
|                     | 802.11n-HT20 MCS0   | 52      | 5260            | 9.60                | 10.50         | 9.70                | 10.50         | 12.82               | 13.50         | 98.99        |
|                     |                     | 56      | 5280            | 9.70                | 10.50         | 9.60                | 10.50         | 12.95               | 13.50         |              |
|                     |                     | 60      | 5300            | 9.80                | 10.50         | 9.90                | 10.50         | 12.97               | 13.50         |              |
|                     |                     | 64      | 5320            | 10.00               | 10.50         | 9.80                | 10.50         | 13.05               | 13.50         |              |
|                     | 802.11n-HT40 MCS0   | 54      | 5270            | 9.80                | 11.00         | 9.80                | 11.00         | 12.87               | 14.00         | 98.47        |
|                     |                     | 62      | 5310            | 8.60                | 9.00          | 8.30                | 9.00          | 11.54               | 12.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 52      | 5260            | 9.50                | 10.50         | 9.60                | 10.50         | 12.72               | 13.50         | 98.99        |
|                     |                     | 56      | 5280            | 9.60                | 10.50         | 9.50                | 10.50         | 13.05               | 13.50         |              |
|                     |                     | 60      | 5300            | 9.70                | 10.50         | 9.80                | 10.50         | 12.87               | 13.50         |              |
|                     |                     | 64      | 5320            | 9.90                | 10.50         | 9.70                | 10.50         | 12.95               | 13.50         |              |
|                     | 802.11ac-VHT40 MCS0 | 54      | 5270            | 9.70                | 11.00         | 9.70                | 11.00         | 12.77               | 14.00         | 98.48        |
|                     |                     | 62      | 5310            | 8.50                | 9.00          | 8.20                | 9.00          | 11.44               | 12.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 58      | 5290            | 6.70                | 7.50          | 6.60                | 7.50          | 9.81                | 10.50         | 96.28        |
|                     | 802.11ax-HE20 MCS0  | 52      | 5260            | 9.50                | 10.50         | 9.60                | 10.50         | 12.72               | 13.50         | 98.69        |
|                     |                     | 56      | 5280            | 9.60                | 10.50         | 9.50                | 10.50         | 13.05               | 13.50         |              |
|                     |                     | 60      | 5300            | 9.70                | 10.50         | 9.80                | 10.50         | 12.87               | 13.50         |              |
|                     |                     | 64      | 5320            | 9.90                | 10.50         | 9.70                | 10.50         | 12.95               | 13.50         |              |
|                     | 802.11ax-HE40 MCS0  | 54      | 5270            | 9.70                | 11.00         | 9.70                | 11.00         | 12.77               | 14.00         | 98.12        |
|                     |                     | 62      | 5310            | 8.50                | 9.00          | 8.20                | 9.00          | 11.44               | 12.00         |              |
|                     | 802.11ax-HE80 MCS0  | 58      | 5290            | 6.70                | 7.50          | 6.60                | 7.50          | 9.81                | 10.50         | 95.73        |





| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.5GHz WLAN         | 802.11a 6Mbps       | 100     | 5500            | 9.90                | 10.50         | 9.60                | 10.50         | 12.94               | 13.50         | 99.00        |
|                     |                     | 116     | 5580            | 9.80                | 10.50         | 9.80                | 10.50         | 12.98               | 13.50         |              |
|                     |                     | 124     | 5620            | 9.70                | 10.50         | 9.70                | 10.50         | 12.98               | 13.50         |              |
|                     |                     | 132     | 5660            | 9.80                | 10.50         | 9.60                | 10.50         | 12.92               | 13.50         |              |
|                     |                     | 140     | 5700            | 9.80                | 10.50         | 9.60                | 10.50         | 12.88               | 13.50         |              |
|                     |                     | 144     | 5720            | 9.90                | 10.50         | 9.80                | 10.50         | 12.98               | 13.50         |              |
|                     | 802.11n-HT20 MCS0   | 100     | 5500            | 10.00               | 10.50         | 9.90                | 10.50         | 13.22               | 13.50         | 98.99        |
|                     |                     | 116     | 5580            | 10.00               | 10.50         | 9.80                | 10.50         | 12.87               | 13.50         |              |
|                     |                     | 124     | 5620            | 9.90                | 10.50         | 9.60                | 10.50         | 13.05               | 13.50         |              |
|                     |                     | 132     | 5660            | 9.70                | 10.50         | 9.50                | 10.50         | 12.94               | 13.50         |              |
|                     | 802.11n-HT40 MCS0   | 102     | 5510            | 9.50                | 10.00         | 9.50                | 10.00         | 12.44               | 13.00         | 98.47        |
|                     |                     | 110     | 5550            | 9.90                | 11.00         | 9.90                | 11.00         | 13.05               | 14.00         |              |
|                     |                     | 126     | 5630            | 9.70                | 11.00         | 9.60                | 11.00         | 12.98               | 14.00         |              |
|                     |                     | 134     | 5670            | 9.80                | 11.00         | 9.70                | 11.00         | 12.72               | 14.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 142     | 5710            | 9.70                | 11.00         | 9.80                | 11.00         | 12.84               | 14.00         | 98.99        |
|                     |                     | 100     | 5500            | 9.90                | 10.50         | 9.80                | 10.50         | 13.12               | 13.50         |              |
|                     |                     | 116     | 5580            | 9.90                | 10.50         | 9.70                | 10.50         | 12.77               | 13.50         |              |
|                     |                     | 124     | 5620            | 9.70                | 10.50         | 9.80                | 10.50         | 12.98               | 13.50         |              |
|                     |                     | 132     | 5660            | 9.60                | 10.50         | 9.60                | 10.50         | 12.90               | 13.50         |              |
|                     | 802.11ac-VHT40 MCS0 | 144     | 5720            | 9.80                | 10.50         | 9.60                | 10.50         | 12.80               | 13.50         | 98.48        |
|                     |                     | 102     | 5510            | 9.40                | 10.00         | 9.40                | 10.00         | 12.34               | 13.00         |              |
|                     |                     | 110     | 5550            | 9.80                | 11.00         | 9.80                | 11.00         | 12.95               | 14.00         |              |
|                     |                     | 126     | 5630            | 9.70                | 11.00         | 9.70                | 11.00         | 12.98               | 14.00         |              |
|                     |                     | 134     | 5670            | 9.70                | 11.00         | 9.60                | 11.00         | 12.62               | 14.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 142     | 5710            | 9.60                | 11.00         | 9.70                | 11.00         | 12.74               | 14.00         | 96.28        |
|                     |                     | 106     | 5530            | 7.70                | 8.50          | 7.60                | 8.50          | 10.91               | 11.50         |              |
|                     |                     | 122     | 5610            | 9.80                | 11.00         | 9.60                | 11.00         | 12.77               | 14.00         |              |
|                     | 802.11ax-HE20 MCS0  | 138     | 5690            | 9.80                | 11.00         | 9.60                | 11.00         | 12.72               | 14.00         | 98.69        |
|                     |                     | 100     | 5500            | 9.90                | 10.50         | 9.80                | 10.50         | 13.12               | 13.50         |              |
|                     |                     | 116     | 5580            | 9.90                | 10.50         | 9.70                | 10.50         | 12.77               | 13.50         |              |
|                     |                     | 124     | 5620            | 9.70                | 10.50         | 9.80                | 10.50         | 12.98               | 13.50         |              |
|                     |                     | 132     | 5660            | 9.60                | 10.50         | 9.60                | 10.50         | 12.90               | 13.50         |              |
|                     | 802.11ax-HE40 MCS0  | 144     | 5720            | 9.80                | 10.50         | 9.60                | 10.50         | 12.80               | 13.50         | 98.12        |
|                     |                     | 102     | 5510            | 9.40                | 10.00         | 9.40                | 10.00         | 12.34               | 13.00         |              |
|                     |                     | 110     | 5550            | 9.80                | 11.00         | 9.80                | 11.00         | 12.95               | 14.00         |              |
|                     |                     | 126     | 5630            | 9.70                | 11.00         | 9.70                | 11.00         | 12.98               | 14.00         |              |
|                     | 802.11ax-HE80 MCS0  | 134     | 5670            | 9.70                | 11.00         | 9.60                | 11.00         | 12.62               | 14.00         | 95.73        |
|                     |                     | 142     | 5710            | 9.60                | 11.00         | 9.70                | 11.00         | 12.74               | 14.00         |              |
|                     |                     | 106     | 5530            | 7.70                | 8.50          | 7.60                | 8.50          | 10.91               | 11.50         |              |
|                     |                     | 122     | 5610            | 9.80                | 11.00         | 9.60                | 11.00         | 12.77               | 14.00         |              |
|                     |                     | 138     | 5690            | 9.80                | 11.00         | 9.60                | 11.00         | 12.72               | 14.00         |              |



| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.8GHz WLAN         | 802.11a 6Mbps       | 149     | 5745            | 9.90                | 11.00         | 9.80                | 11.00         | 13.04               | 14.00         | 99.00        |
|                     |                     | 157     | 5785            | 9.80                | 11.00         | 9.70                | 11.00         | 13.14               | 14.00         |              |
|                     |                     | 165     | 5825            | 9.90                | 11.00         | 9.90                | 11.00         | 13.12               | 14.00         |              |
|                     | 802.11n-HT20 MCS0   | 149     | 5745            | 9.70                | 11.00         | 9.80                | 11.00         | 12.94               | 14.00         | 98.99        |
|                     |                     | 157     | 5785            | 9.70                | 11.00         | 9.90                | 11.00         | 13.00               | 14.00         |              |
|                     |                     | 165     | 5825            | 9.80                | 11.00         | 9.90                | 11.00         | 13.04               | 14.00         |              |
|                     | 802.11n-HT40 MCS0   | 151     | 5755            | 9.70                | 11.00         | 9.80                | 11.00         | 12.94               | 14.00         | 98.47        |
|                     |                     | 159     | 5795            | 9.80                | 11.00         | 9.90                | 11.00         | 13.01               | 14.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 149     | 5745            | 9.70                | 11.00         | 9.70                | 11.00         | 12.94               | 14.00         | 98.99        |
|                     |                     | 157     | 5785            | 9.80                | 11.00         | 9.90                | 11.00         | 13.08               | 14.00         |              |
|                     |                     | 165     | 5825            | 9.80                | 11.00         | 9.80                | 11.00         | 12.98               | 14.00         |              |
|                     | 802.11ac-VHT40 MCS0 | 151     | 5755            | 9.70                | 11.00         | 9.90                | 11.00         | 12.98               | 14.00         | 98.48        |
|                     |                     | 159     | 5795            | 9.80                | 11.00         | 9.90                | 11.00         | 13.12               | 14.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 155     | 5775            | 9.60                | 11.00         | 9.90                | 11.00         | 12.94               | 14.00         | 96.28        |
|                     | 802.11ax-HE20 MCS0  | 149     | 5745            | 9.70                | 11.00         | 9.70                | 11.00         | 12.94               | 14.00         | 98.69        |
|                     |                     | 157     | 5785            | 9.80                | 11.00         | 9.90                | 11.00         | 13.08               | 14.00         |              |
|                     |                     | 165     | 5825            | 9.80                | 11.00         | 9.80                | 11.00         | 12.98               | 14.00         |              |
|                     | 802.11ax-HE40 MCS0  | 151     | 5755            | 9.70                | 11.00         | 9.90                | 11.00         | 12.98               | 14.00         | 98.12        |
|                     |                     | 159     | 5795            | 9.80                | 11.00         | 9.90                | 11.00         | 13.12               | 14.00         |              |
|                     | 802.11ax-HE80 MCS0  | 155     | 5775            | 9.60                | 11.00         | 9.90                | 11.00         | 12.94               | 14.00         | 95.73        |



| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
| 2.4GHz WLAN         | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|                     | 802.11b 1Mbps       | 1       | 2412            | 12.70               | 13.50         | 12.80               | 13.50         | 15.87               | 16.50         | 100.00       |
|                     |                     | 6       | 2437            | 13.10               | 13.50         | 13.00               | 13.50         | 15.78               | 16.50         |              |
|                     |                     | 11      | 2462            | 13.00               | 13.50         | 13.10               | 13.50         | 15.87               | 16.50         |              |
|                     | 802.11g 6Mbps       | 1       | 2412            | 12.60               | 13.00         | 12.50               | 13.00         | 15.61               | 16.00         | 99.25        |
|                     |                     | 6       | 2437            | 12.60               | 13.00         | 12.40               | 13.00         | 15.66               | 16.00         |              |
|                     |                     | 11      | 2462            | 12.50               | 13.00         | 12.60               | 13.00         | 15.61               | 16.00         |              |
|                     | 802.11n-HT20 MCS0   | 1       | 2412            | 12.60               | 13.00         | 12.60               | 13.00         | 15.66               | 16.00         | 99.24        |
|                     |                     | 6       | 2437            | 12.60               | 13.00         | 12.60               | 13.00         | 15.61               | 16.00         |              |
|                     |                     | 11      | 2462            | 12.40               | 13.00         | 12.50               | 13.00         | 15.61               | 16.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 1       | 2412            | 12.70               | 13.00         | 12.70               | 13.00         | 15.76               | 16.00         | 99.24        |
|                     |                     | 6       | 2437            | 12.70               | 13.00         | 12.70               | 13.00         | 15.71               | 16.00         |              |
|                     |                     | 11      | 2462            | 12.50               | 13.00         | 12.60               | 13.00         | 15.71               | 16.00         |              |
|                     | 802.11ax-HE20 MCS0  | 1       | 2412            | 12.70               | 13.00         | 12.70               | 13.00         | 15.76               | 16.00         | 98.69        |
|                     |                     | 6       | 2437            | 12.70               | 13.00         | 12.70               | 13.00         | 15.71               | 16.00         |              |
|                     |                     | 11      | 2462            | 12.50               | 13.00         | 12.60               | 13.00         | 15.71               | 16.00         |              |

| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
| 5.2GHz WLAN         | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|                     | 802.11a 6Mbps       | 36      | 5180            | 7.80                | 8.00          | 7.60                | 8.00          | 10.87               | 11.00         | 99.00        |
|                     |                     | 40      | 5200            | 7.80                | 8.00          | 7.60                | 8.00          | 10.87               | 11.00         |              |
|                     |                     | 44      | 5220            | 7.70                | 8.00          | 7.60                | 8.00          | 10.87               | 11.00         |              |
|                     |                     | 48      | 5240            | 7.70                | 8.00          | 7.80                | 8.00          | 10.92               | 11.00         |              |
|                     | 802.11n-HT20 MCS0   | 36      | 5180            | 7.30                | 8.00          | 7.30                | 8.00          | 10.40               | 11.00         | 98.99        |
|                     |                     | 40      | 5200            | 7.30                | 8.00          | 7.60                | 8.00          | 10.44               | 11.00         |              |
|                     |                     | 44      | 5220            | 7.40                | 8.00          | 7.10                | 8.00          | 10.44               | 11.00         |              |
|                     |                     | 48      | 5240            | 7.20                | 8.00          | 7.10                | 8.00          | 10.42               | 11.00         |              |
|                     | 802.11n-HT40 MCS0   | 38      | 5190            | 6.40                | 7.00          | 6.30                | 7.00          | 9.44                | 10.00         | 98.47        |
|                     |                     | 46      | 5230            | 7.80                | 9.00          | 7.70                | 9.00          | 11.07               | 12.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 36      | 5180            | 7.40                | 8.00          | 7.40                | 8.00          | 10.50               | 11.00         | 98.99        |
|                     |                     | 40      | 5200            | 7.40                | 8.00          | 7.40                | 8.00          | 10.50               | 11.00         |              |
|                     |                     | 44      | 5220            | 7.50                | 8.00          | 7.20                | 8.00          | 10.54               | 11.00         |              |
|                     |                     | 48      | 5240            | 7.30                | 8.00          | 7.20                | 8.00          | 10.52               | 11.00         |              |
|                     | 802.11ac-VHT40 MCS0 | 38      | 5190            | 6.50                | 7.00          | 6.40                | 7.00          | 9.54                | 10.00         | 98.48        |
|                     |                     | 46      | 5230            | 7.90                | 9.00          | 7.80                | 9.00          | 11.17               | 12.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 42      | 5210            | 5.70                | 6.00          | 5.80                | 6.00          | 8.88                | 9.00          | 96.28        |
|                     | 802.11ax-HE20 MCS0  | 36      | 5180            | 7.40                | 8.00          | 7.40                | 8.00          | 10.50               | 11.00         | 98.69        |
|                     |                     | 40      | 5200            | 7.40                | 8.00          | 7.40                | 8.00          | 10.50               | 11.00         |              |
|                     |                     | 44      | 5220            | 7.50                | 8.00          | 7.20                | 8.00          | 10.54               | 11.00         |              |
|                     |                     | 48      | 5240            | 7.30                | 8.00          | 7.20                | 8.00          | 10.52               | 11.00         |              |
|                     | 802.11ax-HE40 MCS0  | 38      | 5190            | 6.50                | 7.00          | 6.40                | 7.00          | 9.54                | 10.00         | 98.12        |
|                     |                     | 46      | 5230            | 7.90                | 9.00          | 7.80                | 9.00          | 11.17               | 12.00         |              |
|                     | 802.11ax-HE80 MCS0  | 42      | 5210            | 5.70                | 6.00          | 5.80                | 6.00          | 8.88                | 9.00          | 95.73        |



| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.3GHz WLAN         | 802.11a 6Mbps       | 52      | 5260            | 7.70                | 8.00          | 7.70                | 8.00          | 10.87               | 11.00         | 99.00        |
|                     |                     | 56      | 5280            | 7.60                | 8.00          | 7.70                | 8.00          | 10.92               | 11.00         |              |
|                     |                     | 60      | 5300            | 7.70                | 8.00          | 7.60                | 8.00          | 10.92               | 11.00         |              |
|                     |                     | 64      | 5320            | 7.80                | 8.00          | 7.70                | 8.00          | 10.92               | 11.00         |              |
|                     | 802.11n-HT20 MCS0   | 52      | 5260            | 7.70                | 8.50          | 7.60                | 8.50          | 10.97               | 11.50         | 98.99        |
|                     |                     | 56      | 5280            | 7.80                | 8.50          | 7.60                | 8.50          | 11.01               | 11.50         |              |
|                     |                     | 60      | 5300            | 7.90                | 8.50          | 7.70                | 8.50          | 11.01               | 11.50         |              |
|                     |                     | 64      | 5320            | 7.80                | 8.50          | 7.90                | 8.50          | 11.07               | 11.50         |              |
|                     | 802.11n-HT40 MCS0   | 54      | 5270            | 7.90                | 9.00          | 7.70                | 9.00          | 10.97               | 12.00         | 98.47        |
|                     |                     | 62      | 5310            | 6.40                | 7.00          | 6.40                | 7.00          | 9.65                | 10.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 52      | 5260            | 7.80                | 8.50          | 7.70                | 8.50          | 11.07               | 11.50         | 98.99        |
|                     |                     | 56      | 5280            | 7.90                | 8.50          | 7.70                | 8.50          | 11.11               | 11.50         |              |
|                     |                     | 60      | 5300            | 8.00                | 8.50          | 7.80                | 8.50          | 11.11               | 11.50         |              |
|                     |                     | 64      | 5320            | 7.90                | 8.50          | 8.00                | 8.50          | 11.17               | 11.50         |              |
|                     | 802.11ac-VHT40 MCS0 | 54      | 5270            | 8.00                | 9.00          | 7.80                | 9.00          | 11.07               | 12.00         | 98.48        |
|                     |                     | 62      | 5310            | 6.50                | 7.00          | 6.50                | 7.00          | 9.75                | 10.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 58      | 5290            | 4.80                | 5.50          | 4.60                | 5.50          | 8.01                | 8.50          | 96.28        |
|                     | 802.11ax-HE20 MCS0  | 52      | 5260            | 7.80                | 8.50          | 7.70                | 8.50          | 11.07               | 11.50         | 98.69        |
|                     |                     | 56      | 5280            | 7.90                | 8.50          | 7.70                | 8.50          | 11.11               | 11.50         |              |
|                     |                     | 60      | 5300            | 8.00                | 8.50          | 7.80                | 8.50          | 11.11               | 11.50         |              |
|                     |                     | 64      | 5320            | 7.90                | 8.50          | 8.00                | 8.50          | 11.17               | 11.50         |              |
|                     | 802.11ax-HE40 MCS0  | 54      | 5270            | 8.00                | 9.00          | 7.80                | 9.00          | 11.07               | 12.00         | 98.12        |
|                     |                     | 62      | 5310            | 6.50                | 7.00          | 6.50                | 7.00          | 9.75                | 10.00         |              |
|                     | 802.11ax-HE80 MCS0  | 58      | 5290            | 4.80                | 5.50          | 4.60                | 5.50          | 8.01                | 8.50          | 95.73        |



| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.5GHz WLAN         | 802.11a 6Mbps       | 100     | 5500            | 7.80                | 8.50          | 7.80                | 8.50          | 10.98               | 11.50         | 99.00        |
|                     |                     | 116     | 5580            | 7.90                | 8.50          | 7.90                | 8.50          | 10.97               | 11.50         |              |
|                     |                     | 124     | 5620            | 7.90                | 8.50          | 7.80                | 8.50          | 11.10               | 11.50         |              |
|                     |                     | 132     | 5660            | 7.90                | 8.50          | 7.80                | 8.50          | 11.04               | 11.50         |              |
|                     |                     | 144     | 5720            | 7.90                | 8.50          | 7.80                | 8.50          | 10.92               | 11.50         |              |
|                     | 802.11n-HT20 MCS0   | 100     | 5500            | 8.10                | 8.50          | 7.90                | 8.50          | 11.21               | 11.50         | 98.99        |
|                     |                     | 116     | 5580            | 8.00                | 8.50          | 7.80                | 8.50          | 11.02               | 11.50         |              |
|                     |                     | 124     | 5620            | 7.90                | 8.50          | 7.80                | 8.50          | 11.08               | 11.50         |              |
|                     |                     | 132     | 5660            | 7.80                | 8.50          | 7.80                | 8.50          | 10.98               | 11.50         |              |
|                     |                     | 144     | 5720            | 7.80                | 8.50          | 7.70                | 8.50          | 11.00               | 11.50         |              |
|                     | 802.11n-HT40 MCS0   | 102     | 5510            | 7.60                | 8.00          | 7.40                | 8.00          | 10.55               | 11.00         | 98.47        |
|                     |                     | 110     | 5550            | 7.90                | 9.00          | 7.80                | 9.00          | 11.01               | 12.00         |              |
|                     |                     | 126     | 5630            | 8.00                | 9.00          | 7.80                | 9.00          | 11.01               | 12.00         |              |
|                     |                     | 134     | 5670            | 7.80                | 9.00          | 7.70                | 9.00          | 10.82               | 12.00         |              |
|                     |                     | 142     | 5710            | 7.90                | 9.00          | 7.80                | 9.00          | 10.82               | 12.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 100     | 5500            | 8.20                | 8.50          | 8.00                | 8.50          | 11.31               | 11.50         | 98.99        |
|                     |                     | 116     | 5580            | 8.10                | 8.50          | 7.90                | 8.50          | 11.12               | 11.50         |              |
|                     |                     | 124     | 5620            | 8.00                | 8.50          | 7.90                | 8.50          | 11.12               | 11.50         |              |
|                     |                     | 132     | 5660            | 7.90                | 8.50          | 7.90                | 8.50          | 11.04               | 11.50         |              |
|                     |                     | 144     | 5720            | 7.90                | 8.50          | 7.80                | 8.50          | 11.10               | 11.50         |              |
|                     | 802.11ac-VHT40 MCS0 | 102     | 5510            | 7.70                | 8.00          | 7.50                | 8.00          | 10.65               | 11.00         | 98.48        |
|                     |                     | 110     | 5550            | 8.00                | 9.00          | 7.90                | 9.00          | 11.11               | 12.00         |              |
|                     |                     | 126     | 5630            | 8.10                | 9.00          | 7.90                | 9.00          | 11.11               | 12.00         |              |
|                     |                     | 134     | 5670            | 7.90                | 9.00          | 7.80                | 9.00          | 10.92               | 12.00         |              |
|                     |                     | 142     | 5710            | 8.00                | 9.00          | 7.90                | 9.00          | 10.92               | 12.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 106     | 5530            | 5.90                | 6.50          | 5.80                | 6.50          | 9.01                | 9.50          | 96.28        |
|                     |                     | 122     | 5610            | 7.80                | 9.00          | 7.70                | 9.00          | 10.82               | 12.00         |              |
|                     |                     | 138     | 5690            | 7.80                | 9.00          | 7.70                | 9.00          | 10.88               | 12.00         |              |
|                     | 802.11ax-HE20 MCS0  | 100     | 5500            | 8.20                | 8.50          | 8.00                | 8.50          | 11.31               | 11.50         | 98.69        |
|                     |                     | 116     | 5580            | 8.10                | 8.50          | 7.90                | 8.50          | 11.12               | 11.50         |              |
|                     |                     | 124     | 5620            | 8.00                | 8.50          | 7.90                | 8.50          | 11.12               | 11.50         |              |
|                     |                     | 132     | 5660            | 7.90                | 8.50          | 7.90                | 8.50          | 11.04               | 11.50         |              |
|                     |                     | 144     | 5720            | 7.90                | 8.50          | 7.80                | 8.50          | 11.10               | 11.50         |              |
|                     | 802.11ax-HE40 MCS0  | 102     | 5510            | 7.70                | 8.00          | 7.50                | 8.00          | 10.65               | 11.00         | 98.12        |
|                     |                     | 110     | 5550            | 8.00                | 9.00          | 7.90                | 9.00          | 11.11               | 12.00         |              |
|                     |                     | 126     | 5630            | 8.10                | 9.00          | 7.90                | 9.00          | 11.11               | 12.00         |              |
|                     |                     | 134     | 5670            | 7.90                | 9.00          | 7.80                | 9.00          | 10.92               | 12.00         |              |
|                     |                     | 142     | 5710            | 8.00                | 9.00          | 7.90                | 9.00          | 10.92               | 12.00         |              |
|                     | 802.11ax-HE80 MCS0  | 106     | 5530            | 5.90                | 6.50          | 5.80                | 6.50          | 9.01                | 9.50          | 95.73        |
|                     |                     | 122     | 5610            | 7.80                | 9.00          | 7.70                | 9.00          | 10.82               | 12.00         |              |
|                     |                     | 138     | 5690            | 7.80                | 9.00          | 7.70                | 9.00          | 10.88               | 12.00         |              |



| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.8GHz WLAN         | 802.11a 6Mbps       | 149     | 5745            | 8.90                | 9.00          | 8.80                | 9.00          | 11.96               | 12.00         | 99.00        |
|                     |                     | 157     | 5785            | 8.90                | 9.00          | 8.90                | 9.00          | 11.94               | 12.00         |              |
|                     |                     | 165     | 5825            | 8.80                | 9.00          | 8.80                | 9.00          | 12.00               | 12.00         |              |
|                     | 802.11n-HT20 MCS0   | 149     | 5745            | 8.70                | 9.00          | 8.70                | 9.00          | 11.82               | 12.00         | 98.99        |
|                     |                     | 157     | 5785            | 8.70                | 9.00          | 8.80                | 9.00          | 11.92               | 12.00         |              |
|                     |                     | 165     | 5825            | 8.80                | 9.00          | 8.90                | 9.00          | 11.90               | 12.00         |              |
|                     | 802.11n-HT40 MCS0   | 151     | 5755            | 8.70                | 9.00          | 8.80                | 9.00          | 11.84               | 12.00         | 98.47        |
|                     |                     | 159     | 5795            | 8.80                | 9.00          | 8.90                | 9.00          | 11.97               | 12.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 149     | 5745            | 8.70                | 9.00          | 8.70                | 9.00          | 11.92               | 12.00         | 98.99        |
|                     |                     | 157     | 5785            | 8.80                | 9.00          | 8.90                | 9.00          | 12.00               | 12.00         |              |
|                     |                     | 165     | 5825            | 8.70                | 9.00          | 8.90                | 9.00          | 11.88               | 12.00         |              |
|                     | 802.11ac-VHT40 MCS0 | 151     | 5755            | 8.70                | 9.00          | 8.70                | 9.00          | 11.92               | 12.00         | 98.48        |
|                     |                     | 159     | 5795            | 8.70                | 9.00          | 8.90                | 9.00          | 11.97               | 12.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 155     | 5775            | 8.60                | 9.00          | 8.90                | 9.00          | 11.94               | 12.00         | 96.28        |
|                     | 802.11ax-HE20 MCS0  | 149     | 5745            | 8.70                | 9.00          | 8.70                | 9.00          | 11.92               | 12.00         | 98.69        |
|                     |                     | 157     | 5785            | 8.80                | 9.00          | 8.90                | 9.00          | 12.00               | 12.00         |              |
|                     |                     | 165     | 5825            | 8.70                | 9.00          | 8.90                | 9.00          | 11.88               | 12.00         |              |
|                     | 802.11ax-HE40 MCS0  | 151     | 5755            | 8.70                | 9.00          | 8.70                | 9.00          | 11.92               | 12.00         | 98.12        |
|                     |                     | 159     | 5795            | 8.70                | 9.00          | 8.90                | 9.00          | 11.97               | 12.00         |              |
|                     | 802.11ax-HE80 MCS0  | 155     | 5775            | 8.60                | 9.00          | 8.90                | 9.00          | 11.94               | 12.00         | 95.73        |



| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 2.4GHz WLAN         | 802.11b 1Mbps       | 1       | 2412            | 18.40               | 19.00         | 18.50               | 19.00         | 21.56               | 22.00         | 100.00       |
|                     |                     | 6       | 2437            | 18.70               | 19.00         | 18.50               | 19.00         | 21.86               | 22.00         |              |
|                     |                     | 11      | 2462            | 18.70               | 19.00         | 18.40               | 19.00         | 21.76               | 22.00         |              |
|                     | 802.11g 6Mbps       | 1       | 2412            | 18.10               | 18.50         | 18.00               | 18.50         | 21.16               | 21.50         | 99.25        |
|                     |                     | 6       | 2437            | 18.20               | 18.50         | 17.90               | 18.50         | 21.11               | 21.50         |              |
|                     |                     | 11      | 2462            | 18.00               | 18.50         | 18.10               | 18.50         | 21.21               | 21.50         |              |
|                     | 802.11n-HT20 MCS0   | 1       | 2412            | 18.20               | 18.50         | 18.10               | 18.50         | 21.21               | 21.50         | 99.24        |
|                     |                     | 6       | 2437            | 18.00               | 18.50         | 18.00               | 18.50         | 21.16               | 21.50         |              |
|                     |                     | 11      | 2462            | 17.80               | 18.50         | 17.90               | 18.50         | 20.97               | 21.50         |              |
|                     | 802.11ac-VHT20 MCS0 | 1       | 2412            | 18.20               | 18.50         | 18.30               | 18.50         | 21.26               | 21.50         | 99.24        |
|                     |                     | 6       | 2437            | 18.20               | 18.50         | 18.10               | 18.50         | 21.11               | 21.50         |              |
|                     |                     | 11      | 2462            | 18.00               | 18.50         | 18.10               | 18.50         | 21.07               | 21.50         |              |
|                     | 802.11ax-HE20 MCS0  | 1       | 2412            | 18.20               | 18.50         | 18.30               | 18.50         | 21.26               | 21.50         | 98.69        |
|                     |                     | 6       | 2437            | 18.20               | 18.50         | 18.10               | 18.50         | 21.11               | 21.50         |              |
|                     |                     | 11      | 2462            | 18.00               | 18.50         | 18.10               | 18.50         | 21.07               | 21.50         |              |

| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.2GHz WLAN         | 802.11a 6Mbps       | 36      | 5180            | 16.30               | 16.50         | 16.00               | 16.50         | 19.27               | 19.50         | 99.00        |
|                     |                     | 40      | 5200            | 16.20               | 16.50         | 15.90               | 16.50         | 19.38               | 19.50         |              |
|                     |                     | 44      | 5220            | 16.20               | 16.50         | 15.90               | 16.50         | 19.32               | 19.50         |              |
|                     |                     | 48      | 5240            | 16.20               | 16.50         | 16.20               | 16.50         | 19.34               | 19.50         |              |
|                     | 802.11n-HT20 MCS0   | 36      | 5180            | 15.80               | 16.50         | 15.70               | 16.50         | 18.90               | 19.50         | 98.99        |
|                     |                     | 40      | 5200            | 16.00               | 16.50         | 15.70               | 16.50         | 18.82               | 19.50         |              |
|                     |                     | 44      | 5220            | 15.90               | 16.50         | 15.90               | 16.50         | 18.98               | 19.50         |              |
|                     | 802.11n-HT40 MCS0   | 38      | 5190            | 14.90               | 15.50         | 14.80               | 15.50         | 17.97               | 18.50         | 98.47        |
|                     |                     | 46      | 5230            | 16.40               | 17.50         | 16.30               | 17.50         | 19.47               | 20.50         |              |
|                     | 802.11ac-VHT20 MCS0 | 36      | 5180            | 15.70               | 16.50         | 15.60               | 16.50         | 18.80               | 19.50         | 98.99        |
|                     |                     | 40      | 5200            | 15.60               | 16.50         | 15.60               | 16.50         | 18.98               | 19.50         |              |
|                     |                     | 44      | 5220            | 15.80               | 16.50         | 15.80               | 16.50         | 18.88               | 19.50         |              |
|                     |                     | 48      | 5240            | 15.70               | 16.50         | 15.50               | 16.50         | 18.68               | 19.50         |              |
|                     | 802.11ac-VHT40 MCS0 | 38      | 5190            | 14.80               | 15.50         | 14.70               | 15.50         | 17.87               | 18.50         | 98.48        |
|                     |                     | 46      | 5230            | 16.30               | 17.50         | 16.20               | 17.50         | 19.37               | 20.50         |              |
|                     | 802.11ac-VHT80 MCS0 | 42      | 5210            | 14.30               | 14.50         | 14.30               | 14.50         | 17.32               | 17.50         | 96.28        |
|                     | 802.11ax-HE20 MCS0  | 36      | 5180            | 15.70               | 16.50         | 15.60               | 16.50         | 18.80               | 19.50         | 98.69        |
|                     |                     | 40      | 5200            | 15.60               | 16.50         | 15.60               | 16.50         | 18.98               | 19.50         |              |
|                     |                     | 44      | 5220            | 15.80               | 16.50         | 15.80               | 16.50         | 18.88               | 19.50         |              |
|                     |                     | 48      | 5240            | 15.70               | 16.50         | 15.50               | 16.50         | 18.68               | 19.50         |              |
|                     | 802.11ax-HE40 MCS0  | 38      | 5190            | 14.80               | 15.50         | 14.70               | 15.50         | 17.87               | 18.50         | 98.12        |
|                     |                     | 46      | 5230            | 16.30               | 17.50         | 16.20               | 17.50         | 19.37               | 20.50         |              |
|                     | 802.11ax-HE80 MCS0  | 42      | 5210            | 14.30               | 14.50         | 14.30               | 14.50         | 17.32               | 17.50         | 95.73        |

| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.3GHz WLAN         | 802.11a 6Mbps       | 52      | 5260            | 16.10               | 16.50         | 16.20               | 16.50         | 19.37               | 19.50         | 99.00        |
|                     |                     | 56      | 5280            | 16.00               | 16.50         | 16.00               | 16.50         | 19.22               | 19.50         |              |
|                     |                     | 60      | 5300            | 16.10               | 16.50         | 16.20               | 16.50         | 19.40               | 19.50         |              |
|                     |                     | 64      | 5320            | 16.20               | 16.50         | 16.20               | 16.50         | 19.38               | 19.50         |              |
|                     | 802.11n-HT20 MCS0   | 52      | 5260            | 16.10               | 17.00         | 16.20               | 17.00         | 19.38               | 20.00         | 98.99        |
|                     |                     | 56      | 5280            | 16.20               | 17.00         | 16.10               | 17.00         | 19.41               | 20.00         |              |
|                     |                     | 60      | 5300            | 16.50               | 17.00         | 16.50               | 17.00         | 19.57               | 20.00         |              |
|                     |                     | 64      | 5320            | 16.50               | 17.00         | 16.50               | 17.00         | 19.67               | 20.00         |              |
|                     | 802.11n-HT40 MCS0   | 54      | 5270            | 16.30               | 17.50         | 16.20               | 17.50         | 19.45               | 20.50         | 98.47        |
|                     |                     | 62      | 5310            | 15.00               | 15.50         | 14.80               | 15.50         | 18.04               | 18.50         |              |
|                     | 802.11ac-VHT20 MCS0 | 52      | 5260            | 16.00               | 17.00         | 16.10               | 17.00         | 19.28               | 20.00         | 98.99        |
|                     |                     | 56      | 5280            | 16.20               | 17.00         | 16.20               | 17.00         | 19.42               | 20.00         |              |
|                     |                     | 60      | 5300            | 16.40               | 17.00         | 16.40               | 17.00         | 18.91               | 20.00         |              |
|                     |                     | 64      | 5320            | 16.40               | 17.00         | 16.40               | 17.00         | 19.57               | 20.00         |              |
|                     | 802.11ac-VHT40 MCS0 | 54      | 5270            | 16.20               | 17.50         | 16.10               | 17.50         | 19.35               | 20.50         | 98.48        |
|                     |                     | 62      | 5310            | 14.90               | 15.50         | 14.70               | 15.50         | 17.94               | 18.50         |              |
|                     | 802.11ac-VHT80 MCS0 | 58      | 5290            | 13.40               | 14.00         | 13.10               | 14.00         | 16.35               | 17.00         | 96.28        |
|                     | 802.11ax-HE20 MCS0  | 52      | 5260            | 16.00               | 17.00         | 16.10               | 17.00         | 19.28               | 20.00         | 98.69        |
|                     |                     | 56      | 5280            | 16.20               | 17.00         | 16.20               | 17.00         | 19.42               | 20.00         |              |
|                     |                     | 60      | 5300            | 16.40               | 17.00         | 16.40               | 17.00         | 18.91               | 20.00         |              |
|                     |                     | 64      | 5320            | 16.40               | 17.00         | 16.40               | 17.00         | 19.57               | 20.00         |              |
|                     | 802.11ax-HE40 MCS0  | 54      | 5270            | 16.20               | 17.50         | 16.10               | 17.50         | 19.35               | 20.50         | 98.12        |
|                     |                     | 62      | 5310            | 14.90               | 15.50         | 14.70               | 15.50         | 17.94               | 18.50         |              |
|                     | 802.11ax-HE80 MCS0  | 58      | 5290            | 13.40               | 14.00         | 13.10               | 14.00         | 16.35               | 17.00         | 95.73        |





| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.5GHz WLAN         | 802.11a 6Mbps       | 100     | 5500            | 16.20               | 17.00         | 16.10               | 17.00         | 19.64               | 20.00         | 99.00        |
|                     |                     | 116     | 5580            | 16.20               | 17.00         | 16.20               | 17.00         | 19.50               | 20.00         |              |
|                     |                     | 124     | 5620            | 16.20               | 17.00         | 16.00               | 17.00         | 19.40               | 20.00         |              |
|                     |                     | 132     | 5660            | 16.20               | 17.00         | 16.10               | 17.00         | 20.00               | 20.00         |              |
|                     |                     | 144     | 5720            | 16.30               | 17.00         | 16.30               | 17.00         | 19.37               | 20.00         |              |
|                     | 802.11n-HT20 MCS0   | 100     | 5500            | 16.60               | 17.00         | 16.50               | 17.00         | 19.61               | 20.00         | 98.99        |
|                     |                     | 116     | 5580            | 16.40               | 17.00         | 16.20               | 17.00         | 19.40               | 20.00         |              |
|                     |                     | 124     | 5620            | 16.10               | 17.00         | 16.20               | 17.00         | 19.38               | 20.00         |              |
|                     |                     | 132     | 5660            | 16.00               | 17.00         | 16.10               | 17.00         | 19.32               | 20.00         |              |
|                     | 802.11n-HT40 MCS0   | 102     | 5510            | 15.90               | 16.50         | 16.00               | 16.50         | 19.14               | 19.50         | 98.47        |
|                     |                     | 110     | 5550            | 16.60               | 17.50         | 16.40               | 17.50         | 19.55               | 20.50         |              |
|                     |                     | 126     | 5630            | 16.10               | 17.50         | 16.10               | 17.50         | 19.45               | 20.50         |              |
|                     |                     | 134     | 5670            | 16.30               | 17.50         | 16.30               | 17.50         | 19.32               | 20.50         |              |
|                     | 802.11ac-VHT20 MCS0 | 100     | 5500            | 16.50               | 17.00         | 16.40               | 17.00         | 19.51               | 20.00         | 98.99        |
|                     |                     | 116     | 5580            | 16.30               | 17.00         | 16.10               | 17.00         | 19.30               | 20.00         |              |
|                     |                     | 124     | 5620            | 16.20               | 17.00         | 16.20               | 17.00         | 19.32               | 20.00         |              |
|                     |                     | 132     | 5660            | 16.10               | 17.00         | 16.30               | 17.00         | 19.44               | 20.00         |              |
|                     | 802.11ac-VHT40 MCS0 | 102     | 5510            | 15.80               | 16.50         | 15.90               | 16.50         | 19.04               | 19.50         | 98.48        |
|                     |                     | 110     | 5550            | 16.50               | 17.50         | 16.30               | 17.50         | 19.45               | 20.50         |              |
|                     |                     | 126     | 5630            | 16.30               | 17.50         | 16.40               | 17.50         | 19.21               | 20.50         |              |
|                     |                     | 134     | 5670            | 16.20               | 17.50         | 16.20               | 17.50         | 19.22               | 20.50         |              |
|                     | 802.11ac-VHT80 MCS0 | 106     | 5530            | 14.30               | 15.00         | 14.20               | 15.00         | 17.41               | 18.00         | 96.28        |
|                     |                     | 122     | 5610            | 16.20               | 17.50         | 16.20               | 17.50         | 19.34               | 20.50         |              |
|                     | 802.11ax-HE20 MCS0  | 138     | 5690            | 16.30               | 17.50         | 16.30               | 17.50         | 19.22               | 20.50         | 98.69        |
|                     |                     | 100     | 5500            | 16.50               | 17.00         | 16.40               | 17.00         | 19.51               | 20.00         |              |
|                     |                     | 116     | 5580            | 16.30               | 17.00         | 16.10               | 17.00         | 19.30               | 20.00         |              |
|                     |                     | 124     | 5620            | 16.20               | 17.00         | 16.20               | 17.00         | 19.32               | 20.00         |              |
|                     | 802.11ax-HE40 MCS0  | 132     | 5660            | 16.10               | 17.00         | 16.30               | 17.00         | 19.44               | 20.00         | 98.12        |
|                     |                     | 144     | 5720            | 16.40               | 17.00         | 16.10               | 17.00         | 19.38               | 20.00         |              |
|                     |                     | 102     | 5510            | 15.80               | 16.50         | 15.90               | 16.50         | 19.04               | 19.50         |              |
|                     |                     | 110     | 5550            | 16.50               | 17.50         | 16.30               | 17.50         | 19.45               | 20.50         |              |
|                     | 802.11ax-HE80 MCS0  | 126     | 5630            | 16.30               | 17.50         | 17.40               | 17.50         | 19.21               | 20.50         | 95.73        |
|                     |                     | 134     | 5670            | 16.20               | 17.50         | 16.20               | 17.50         | 19.22               | 20.50         |              |
|                     |                     | 142     | 5710            | 16.20               | 17.50         | 16.10               | 17.50         | 19.34               | 20.50         |              |



| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.8GHz WLAN         | 802.11a 6Mbps       | 149     | 5745            | 12.00               | 13.00         | 11.90               | 13.00         | 15.10               | 16.00         | 99.00        |
|                     |                     | 157     | 5785            | 11.90               | 13.00         | 11.80               | 13.00         | 15.14               | 16.00         |              |
|                     |                     | 165     | 5825            | 11.90               | 13.00         | 12.00               | 13.00         | 15.18               | 16.00         |              |
|                     | 802.11n-HT20 MCS0   | 149     | 5745            | 11.80               | 13.00         | 11.70               | 13.00         | 14.98               | 16.00         | 98.99        |
|                     |                     | 157     | 5785            | 11.80               | 13.00         | 11.90               | 13.00         | 15.08               | 16.00         |              |
|                     |                     | 165     | 5825            | 11.70               | 13.00         | 11.80               | 13.00         | 14.98               | 16.00         |              |
|                     | 802.11n-HT40 MCS0   | 151     | 5755            | 11.80               | 13.00         | 11.80               | 13.00         | 15.04               | 16.00         | 98.47        |
|                     |                     | 159     | 5795            | 11.80               | 13.00         | 12.00               | 13.00         | 15.01               | 16.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 149     | 5745            | 11.80               | 13.00         | 11.70               | 13.00         | 15.04               | 16.00         | 98.99        |
|                     |                     | 157     | 5785            | 11.80               | 13.00         | 12.00               | 13.00         | 15.12               | 16.00         |              |
|                     |                     | 165     | 5825            | 11.70               | 13.00         | 11.80               | 13.00         | 15.04               | 16.00         |              |
|                     | 802.11ac-VHT40 MCS0 | 151     | 5755            | 11.80               | 13.00         | 11.80               | 13.00         | 15.08               | 16.00         | 98.48        |
|                     |                     | 159     | 5795            | 11.80               | 13.00         | 12.00               | 13.00         | 15.07               | 16.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 155     | 5775            | 11.70               | 13.00         | 12.00               | 13.00         | 15.04               | 16.00         | 96.28        |
|                     | 802.11ax-HE20 MCS0  | 149     | 5745            | 11.90               | 13.00         | 11.90               | 13.00         | 15.10               | 16.00         | 98.69        |
|                     |                     | 157     | 5785            | 11.90               | 13.00         | 11.80               | 13.00         | 15.14               | 16.00         |              |
|                     |                     | 165     | 5825            | 11.90               | 13.00         | 11.70               | 13.00         | 15.18               | 16.00         |              |
|                     | 802.11ax-HE40 MCS0  | 151     | 5755            | 11.80               | 13.00         | 12.10               | 13.00         | 15.10               | 16.00         | 98.12        |
|                     |                     | 159     | 5795            | 12.10               | 13.00         | 11.90               | 13.00         | 15.22               | 16.00         |              |
|                     | 802.11ax-HE80 MCS0  | 155     | 5775            | 11.80               | 13.00         | 12.00               | 13.00         | 15.16               | 16.00         | 95.73        |

| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 2.4GHz WLAN         | 802.11b 1Mbps       | 1       | 2412            | 16.40               | 17.00         | 16.30               | 17.00         | 19.51               | 20.00         | 100.00       |
|                     |                     | 6       | 2437            | 16.70               | 17.00         | 16.40               | 17.00         | 19.76               | 20.00         |              |
|                     |                     | 11      | 2462            | 16.80               | 17.00         | 16.50               | 17.00         | 19.81               | 20.00         |              |
|                     | 802.11g 6Mbps       | 1       | 2412            | 16.10               | 16.50         | 15.90               | 16.50         | 19.01               | 19.50         | 99.25        |
|                     |                     | 6       | 2437            | 16.10               | 16.50         | 16.00               | 16.50         | 19.06               | 19.50         |              |
|                     |                     | 11      | 2462            | 16.00               | 16.50         | 16.00               | 16.50         | 19.11               | 19.50         |              |
|                     | 802.11n-HT20 MCS0   | 1       | 2412            | 16.10               | 16.50         | 16.20               | 16.50         | 19.06               | 19.50         | 99.24        |
|                     |                     | 6       | 2437            | 16.10               | 16.50         | 16.00               | 16.50         | 19.01               | 19.50         |              |
|                     |                     | 11      | 2462            | 15.80               | 16.50         | 16.00               | 16.50         | 18.86               | 19.50         |              |
|                     | 802.11ac-VHT20 MCS0 | 1       | 2412            | 16.00               | 16.50         | 16.10               | 16.50         | 18.96               | 19.50         | 99.24        |
|                     |                     | 6       | 2437            | 16.00               | 16.50         | 15.90               | 16.50         | 18.91               | 19.50         |              |
|                     |                     | 11      | 2462            | 15.70               | 16.50         | 15.90               | 16.50         | 18.76               | 19.50         |              |
|                     | 802.11ax-HE20 MCS0  | 1       | 2412            | 16.00               | 16.50         | 16.10               | 16.50         | 18.96               | 19.50         | 98.69        |
|                     |                     | 6       | 2437            | 16.00               | 16.50         | 15.90               | 16.50         | 18.91               | 19.50         |              |
|                     |                     | 11      | 2462            | 15.70               | 16.50         | 15.90               | 16.50         | 18.76               | 19.50         |              |

| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.2GHz WLAN         | 802.11a 6Mbps       | 36      | 5180            | 14.20               | 14.50         | 14.00               | 14.50         | 17.22               | 17.50         | 99.00        |
|                     |                     | 40      | 5200            | 14.10               | 14.50         | 14.00               | 14.50         | 17.32               | 17.50         |              |
|                     |                     | 44      | 5220            | 14.00               | 14.50         | 13.90               | 14.50         | 17.17               | 17.50         |              |
|                     |                     | 48      | 5240            | 14.30               | 14.50         | 14.20               | 14.50         | 17.32               | 17.50         |              |
|                     | 802.11n-HT20 MCS0   | 36      | 5180            | 13.70               | 14.50         | 13.70               | 14.50         | 16.86               | 17.50         | 98.99        |
|                     |                     | 40      | 5200            | 13.60               | 14.50         | 13.70               | 14.50         | 16.86               | 17.50         |              |
|                     |                     | 44      | 5220            | 13.80               | 14.50         | 13.80               | 14.50         | 16.82               | 17.50         |              |
|                     | 802.11n-HT40 MCS0   | 36      | 5180            | 13.70               | 14.50         | 13.50               | 14.50         | 16.80               | 17.50         | 98.47        |
|                     |                     | 40      | 5200            | 12.90               | 13.50         | 12.80               | 13.50         | 15.82               | 16.50         |              |
|                     |                     | 46      | 5230            | 14.20               | 15.50         | 14.20               | 15.50         | 17.41               | 18.50         |              |
|                     | 802.11ac-VHT20 MCS0 | 36      | 5180            | 13.60               | 14.50         | 13.60               | 14.50         | 16.76               | 17.50         | 98.99        |
|                     |                     | 40      | 5200            | 13.70               | 14.50         | 13.50               | 14.50         | 16.92               | 17.50         |              |
|                     |                     | 44      | 5220            | 13.70               | 14.50         | 13.70               | 14.50         | 16.72               | 17.50         |              |
|                     |                     | 48      | 5240            | 13.60               | 14.50         | 13.40               | 14.50         | 16.70               | 17.50         |              |
|                     | 802.11ac-VHT40 MCS0 | 38      | 5190            | 12.80               | 13.50         | 12.70               | 13.50         | 15.72               | 16.50         | 98.48        |
|                     |                     | 46      | 5230            | 14.10               | 15.50         | 14.10               | 15.50         | 17.31               | 18.50         |              |
|                     | 802.11ac-VHT80 MCS0 | 42      | 5210            | 12.20               | 12.50         | 12.20               | 12.50         | 15.50               | 15.50         | 96.28        |
|                     | 802.11ax-HE20 MCS0  | 36      | 5180            | 13.60               | 14.50         | 13.60               | 14.50         | 16.76               | 17.50         | 98.69        |
|                     |                     | 40      | 5200            | 13.70               | 14.50         | 13.50               | 14.50         | 16.92               | 17.50         |              |
|                     |                     | 44      | 5220            | 13.70               | 14.50         | 13.70               | 14.50         | 16.72               | 17.50         |              |
|                     |                     | 48      | 5240            | 13.60               | 14.50         | 13.40               | 14.50         | 16.70               | 17.50         |              |
|                     | 802.11ax-HE40 MCS0  | 38      | 5190            | 12.80               | 13.50         | 12.70               | 13.50         | 15.72               | 16.50         | 98.12        |
|                     |                     | 46      | 5230            | 14.10               | 15.50         | 14.10               | 15.50         | 17.31               | 18.50         |              |
|                     | 802.11ax-HE80 MCS0  | 42      | 5210            | 12.20               | 12.50         | 12.20               | 12.50         | 15.50               | 15.50         | 95.73        |

| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.3GHz WLAN         | 802.11a 6Mbps       | 52      | 5260            | 14.20               | 14.50         | 14.10               | 14.50         | 17.27               | 17.50         | 99.00        |
|                     |                     | 56      | 5280            | 14.00               | 14.50         | 14.00               | 14.50         | 17.28               | 17.50         |              |
|                     |                     | 60      | 5300            | 14.10               | 14.50         | 13.90               | 14.50         | 17.22               | 17.50         |              |
|                     |                     | 64      | 5320            | 14.10               | 14.50         | 14.00               | 14.50         | 17.34               | 17.50         |              |
|                     | 802.11n-HT20 MCS0   | 52      | 5260            | 14.10               | 15.00         | 14.20               | 15.00         | 17.38               | 18.00         | 98.99        |
|                     |                     | 56      | 5280            | 14.30               | 15.00         | 14.20               | 15.00         | 17.34               | 18.00         |              |
|                     |                     | 60      | 5300            | 14.40               | 15.00         | 14.40               | 15.00         | 17.57               | 18.00         |              |
|                     |                     | 64      | 5320            | 14.60               | 15.00         | 14.40               | 15.00         | 17.61               | 18.00         |              |
|                     | 802.11n-HT40 MCS0   | 54      | 5270            | 14.10               | 15.50         | 14.20               | 15.50         | 17.47               | 18.50         | 98.47        |
|                     |                     | 62      | 5310            | 12.80               | 13.50         | 12.80               | 13.50         | 16.10               | 16.50         |              |
|                     | 802.11ac-VHT20 MCS0 | 52      | 5260            | 14.00               | 15.00         | 14.10               | 15.00         | 17.28               | 18.00         | 98.99        |
|                     |                     | 56      | 5280            | 14.20               | 15.00         | 14.00               | 15.00         | 17.66               | 18.00         |              |
|                     |                     | 60      | 5300            | 14.30               | 15.00         | 14.30               | 15.00         | 17.47               | 18.00         |              |
|                     |                     | 64      | 5320            | 14.50               | 15.00         | 14.30               | 15.00         | 17.51               | 18.00         |              |
|                     | 802.11ac-VHT40 MCS0 | 54      | 5270            | 14.00               | 15.50         | 14.10               | 15.50         | 17.37               | 18.50         | 98.48        |
|                     |                     | 62      | 5310            | 12.70               | 13.50         | 12.70               | 13.50         | 16.00               | 16.50         |              |
|                     | 802.11ac-VHT80 MCS0 | 58      | 5290            | 11.30               | 12.00         | 11.00               | 12.00         | 14.48               | 15.00         | 96.28        |
|                     | 802.11ax-HE20 MCS0  | 52      | 5260            | 14.00               | 15.00         | 14.10               | 15.00         | 17.28               | 18.00         | 98.69        |
|                     |                     | 56      | 5280            | 14.20               | 15.00         | 14.00               | 15.00         | 17.66               | 18.00         |              |
|                     |                     | 60      | 5300            | 14.30               | 15.00         | 14.30               | 15.00         | 17.47               | 18.00         |              |
|                     |                     | 64      | 5320            | 14.50               | 15.00         | 14.30               | 15.00         | 17.51               | 18.00         |              |
|                     | 802.11ax-HE40 MCS0  | 54      | 5270            | 14.00               | 15.50         | 14.10               | 15.50         | 17.37               | 18.50         | 98.12        |
|                     |                     | 62      | 5310            | 12.70               | 13.50         | 12.70               | 13.50         | 16.00               | 16.50         |              |
|                     | 802.11ax-HE80 MCS0  | 58      | 5290            | 11.30               | 12.00         | 11.00               | 12.00         | 14.48               | 15.00         | 95.73        |

| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.5GHz WLAN         | 802.11a 6Mbps       | 100     | 5500            | 14.20               | 15.00         | 14.00               | 15.00         | 17.58               | 18.00         | 99.00        |
|                     |                     | 116     | 5580            | 14.30               | 15.00         | 14.10               | 15.00         | 17.40               | 18.00         |              |
|                     |                     | 124     | 5620            | 14.20               | 15.00         | 14.20               | 15.00         | 17.47               | 18.00         |              |
|                     |                     | 132     | 5660            | 14.30               | 15.00         | 14.10               | 15.00         | 17.38               | 18.00         |              |
|                     |                     | 144     | 5720            | 14.20               | 15.00         | 14.00               | 15.00         | 17.28               | 18.00         |              |
|                     | 802.11n-HT20 MCS0   | 100     | 5500            | 14.60               | 15.00         | 14.40               | 15.00         | 17.61               | 18.00         | 98.99        |
|                     |                     | 116     | 5580            | 14.40               | 15.00         | 14.10               | 15.00         | 17.47               | 18.00         |              |
|                     |                     | 124     | 5620            | 14.30               | 15.00         | 14.20               | 15.00         | 17.27               | 18.00         |              |
|                     |                     | 132     | 5660            | 14.20               | 15.00         | 14.00               | 15.00         | 17.37               | 18.00         |              |
|                     | 802.11n-HT40 MCS0   | 102     | 5510            | 13.90               | 14.50         | 14.00               | 14.50         | 17.04               | 17.50         | 98.47        |
|                     |                     | 110     | 5550            | 14.40               | 15.50         | 14.20               | 15.50         | 17.47               | 18.50         |              |
|                     |                     | 126     | 5630            | 14.20               | 15.50         | 14.10               | 15.50         | 17.28               | 18.50         |              |
|                     |                     | 134     | 5670            | 14.20               | 15.50         | 14.00               | 15.50         | 17.37               | 18.50         |              |
|                     | 802.11ac-VHT20 MCS0 | 100     | 5500            | 14.50               | 15.00         | 14.30               | 15.00         | 17.51               | 18.00         | 98.99        |
|                     |                     | 116     | 5580            | 14.30               | 15.00         | 14.00               | 15.00         | 17.37               | 18.00         |              |
|                     |                     | 124     | 5620            | 14.20               | 15.00         | 14.20               | 15.00         | 17.46               | 18.00         |              |
|                     |                     | 132     | 5660            | 14.10               | 15.00         | 14.10               | 15.00         | 17.28               | 18.00         |              |
|                     | 802.11ac-VHT40 MCS0 | 102     | 5510            | 13.80               | 14.50         | 13.90               | 14.50         | 16.94               | 17.50         | 98.48        |
|                     |                     | 110     | 5550            | 14.30               | 15.50         | 14.10               | 15.50         | 17.37               | 18.50         |              |
|                     |                     | 126     | 5630            | 14.20               | 15.50         | 14.30               | 15.50         | 17.46               | 18.50         |              |
|                     |                     | 134     | 5670            | 14.10               | 15.50         | 13.90               | 15.50         | 17.27               | 18.50         |              |
|                     | 802.11ac-VHT80 MCS0 | 106     | 5530            | 12.30               | 13.00         | 12.10               | 13.00         | 15.58               | 16.00         | 96.28        |
|                     |                     | 122     | 5610            | 14.20               | 15.50         | 14.00               | 15.50         | 17.58               | 18.50         |              |
|                     |                     | 138     | 5690            | 14.30               | 15.50         | 14.00               | 15.50         | 17.57               | 18.50         |              |
|                     | 802.11ax-HE20 MCS0  | 100     | 5500            | 14.50               | 15.00         | 14.30               | 15.00         | 17.51               | 18.00         | 98.69        |
|                     |                     | 116     | 5580            | 14.30               | 15.00         | 14.00               | 15.00         | 17.37               | 18.00         |              |
|                     |                     | 124     | 5620            | 14.20               | 15.00         | 14.20               | 15.00         | 17.46               | 18.00         |              |
|                     |                     | 132     | 5660            | 14.10               | 15.00         | 14.10               | 15.00         | 17.28               | 18.00         |              |
|                     | 802.11ax-HE40 MCS0  | 102     | 5510            | 13.80               | 14.50         | 13.90               | 14.50         | 16.94               | 17.50         | 98.12        |
|                     |                     | 110     | 5550            | 14.30               | 15.50         | 14.10               | 15.50         | 17.37               | 18.50         |              |
|                     |                     | 126     | 5630            | 14.20               | 15.50         | 14.30               | 15.50         | 17.46               | 18.50         |              |
|                     |                     | 134     | 5670            | 14.10               | 15.50         | 13.90               | 15.50         | 17.27               | 18.50         |              |
|                     | 802.11ax-HE80 MCS0  | 106     | 5530            | 12.30               | 13.00         | 12.10               | 13.00         | 15.58               | 16.00         | 95.73        |
|                     |                     | 122     | 5610            | 14.20               | 15.50         | 14.00               | 15.50         | 17.58               | 18.50         |              |
|                     |                     | 138     | 5690            | 14.30               | 15.50         | 14.00               | 15.50         | 17.57               | 18.50         |              |



| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.8GHz WLAN         | 802.11a 6Mbps       | 149     | 5745            | 12.00               | 13.00         | 11.90               | 13.00         | 15.10               | 16.00         | 99.00        |
|                     |                     | 157     | 5785            | 11.90               | 13.00         | 11.80               | 13.00         | 15.14               | 16.00         |              |
|                     |                     | 165     | 5825            | 11.90               | 13.00         | 12.00               | 13.00         | 15.18               | 16.00         |              |
|                     | 802.11n-HT20 MCS0   | 149     | 5745            | 11.80               | 13.00         | 11.70               | 13.00         | 14.98               | 16.00         | 98.99        |
|                     |                     | 157     | 5785            | 11.80               | 13.00         | 11.90               | 13.00         | 15.08               | 16.00         |              |
|                     |                     | 165     | 5825            | 11.70               | 13.00         | 11.80               | 13.00         | 14.98               | 16.00         |              |
|                     | 802.11n-HT40 MCS0   | 151     | 5755            | 11.80               | 13.00         | 11.80               | 13.00         | 15.04               | 16.00         | 98.47        |
|                     |                     | 159     | 5795            | 11.80               | 13.00         | 12.00               | 13.00         | 15.01               | 16.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 149     | 5745            | 11.80               | 13.00         | 11.70               | 13.00         | 15.04               | 16.00         | 98.99        |
|                     |                     | 157     | 5785            | 11.80               | 13.00         | 12.00               | 13.00         | 15.12               | 16.00         |              |
|                     |                     | 165     | 5825            | 11.70               | 13.00         | 11.80               | 13.00         | 15.04               | 16.00         |              |
|                     | 802.11ac-VHT40 MCS0 | 151     | 5755            | 11.80               | 13.00         | 11.80               | 13.00         | 15.08               | 16.00         | 98.48        |
|                     |                     | 159     | 5795            | 11.80               | 13.00         | 12.00               | 13.00         | 15.07               | 16.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 155     | 5775            | 11.70               | 13.00         | 12.00               | 13.00         | 15.04               | 16.00         | 96.28        |
|                     | 802.11ax-HE20 MCS0  | 149     | 5745            | 11.90               | 13.00         | 11.90               | 13.00         | 15.10               | 16.00         | 98.69        |
|                     |                     | 157     | 5785            | 11.90               | 13.00         | 11.80               | 13.00         | 15.14               | 16.00         |              |
|                     |                     | 165     | 5825            | 11.90               | 13.00         | 11.70               | 13.00         | 15.18               | 16.00         |              |
|                     | 802.11ax-HE40 MCS0  | 151     | 5755            | 11.80               | 13.00         | 12.10               | 13.00         | 15.10               | 16.00         | 98.12        |
|                     |                     | 159     | 5795            | 12.10               | 13.00         | 11.90               | 13.00         | 15.22               | 16.00         |              |
|                     | 802.11ax-HE80 MCS0  | 155     | 5775            | 11.80               | 13.00         | 12.00               | 13.00         | 15.16               | 16.00         | 95.73        |

| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 2.4GHz WLAN         | 802.11b 1Mbps       | 1       | 2412            | 15.00               | 15.50         | 15.00               | 15.50         | 18.11               | 18.50         | 100.00       |
|                     |                     | 6       | 2437            | 15.40               | 15.50         | 15.10               | 15.50         | 18.41               | 18.50         |              |
|                     |                     | 11      | 2462            | 15.30               | 15.50         | 15.10               | 15.50         | 18.36               | 18.50         |              |
|                     | 802.11g 6Mbps       | 1       | 2412            | 14.70               | 15.00         | 14.60               | 15.00         | 17.71               | 18.00         | 99.25        |
|                     |                     | 6       | 2437            | 14.70               | 15.00         | 14.50               | 15.00         | 17.71               | 18.00         |              |
|                     |                     | 11      | 2462            | 14.60               | 15.00         | 14.70               | 15.00         | 17.66               | 18.00         |              |
|                     | 802.11n-HT20 MCS0   | 1       | 2412            | 14.70               | 15.00         | 14.70               | 15.00         | 17.71               | 18.00         | 99.24        |
|                     |                     | 6       | 2437            | 14.50               | 15.00         | 14.50               | 15.00         | 17.66               | 18.00         |              |
|                     |                     | 11      | 2462            | 14.50               | 15.00         | 14.50               | 15.00         | 17.57               | 18.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 1       | 2412            | 14.80               | 15.00         | 14.80               | 15.00         | 17.81               | 18.00         | 99.24        |
|                     |                     | 6       | 2437            | 14.60               | 15.00         | 14.60               | 15.00         | 17.76               | 18.00         |              |
|                     |                     | 11      | 2462            | 14.60               | 15.00         | 14.60               | 15.00         | 17.67               | 18.00         |              |
|                     | 802.11ax-HE20 MCS0  | 1       | 2412            | 14.80               | 15.00         | 14.80               | 15.00         | 17.81               | 18.00         | 98.69        |
|                     |                     | 6       | 2437            | 14.60               | 15.00         | 14.60               | 15.00         | 17.76               | 18.00         |              |
|                     |                     | 11      | 2462            | 14.60               | 15.00         | 14.60               | 15.00         | 17.67               | 18.00         |              |

| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.2GHz WLAN         | 802.11a 6Mbps       | 36      | 5180            | 12.80               | 13.00         | 12.60               | 13.00         | 15.92               | 16.00         | 99.00        |
|                     |                     | 40      | 5200            | 12.70               | 13.00         | 12.60               | 13.00         | 15.98               | 16.00         |              |
|                     |                     | 44      | 5220            | 12.70               | 13.00         | 12.60               | 13.00         | 15.92               | 16.00         |              |
|                     |                     | 48      | 5240            | 12.80               | 13.00         | 12.80               | 13.00         | 15.98               | 16.00         |              |
|                     | 802.11n-HT20 MCS0   | 36      | 5180            | 12.30               | 13.00         | 12.30               | 13.00         | 15.40               | 16.00         | 98.99        |
|                     |                     | 40      | 5200            | 12.40               | 13.00         | 12.30               | 13.00         | 15.48               | 16.00         |              |
|                     |                     | 44      | 5220            | 12.40               | 13.00         | 12.20               | 13.00         | 15.48               | 16.00         |              |
|                     | 802.11n-HT40 MCS0   | 48      | 5240            | 12.30               | 13.00         | 12.20               | 13.00         | 15.42               | 16.00         | 98.47        |
|                     |                     | 38      | 5190            | 11.40               | 12.00         | 11.30               | 12.00         | 14.44               | 15.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 46      | 5230            | 12.80               | 14.00         | 12.80               | 14.00         | 16.07               | 17.00         | 98.99        |
|                     |                     | 36      | 5180            | 12.40               | 13.00         | 12.40               | 13.00         | 15.50               | 16.00         |              |
|                     |                     | 40      | 5200            | 12.50               | 13.00         | 12.40               | 13.00         | 15.58               | 16.00         |              |
|                     |                     | 44      | 5220            | 12.50               | 13.00         | 12.30               | 13.00         | 15.58               | 16.00         |              |
|                     | 802.11ac-VHT40 MCS0 | 48      | 5240            | 12.40               | 13.00         | 12.30               | 13.00         | 15.52               | 16.00         | 98.48        |
|                     |                     | 38      | 5190            | 11.50               | 12.00         | 11.40               | 12.00         | 14.54               | 15.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 46      | 5230            | 12.90               | 14.00         | 12.90               | 14.00         | 16.17               | 17.00         | 98.69        |
|                     |                     | 42      | 5210            | 10.80               | 11.00         | 10.80               | 11.00         | 13.88               | 14.00         |              |
|                     |                     | 36      | 5180            | 12.40               | 13.00         | 12.40               | 13.00         | 15.50               | 16.00         |              |
|                     |                     | 40      | 5200            | 12.50               | 13.00         | 12.40               | 13.00         | 15.58               | 16.00         |              |
|                     | 802.11ax-HE20 MCS0  | 44      | 5220            | 12.50               | 13.00         | 12.30               | 13.00         | 15.58               | 16.00         | 98.12        |
|                     |                     | 48      | 5240            | 12.40               | 13.00         | 12.30               | 13.00         | 15.52               | 16.00         |              |
|                     | 802.11ax-HE40 MCS0  | 38      | 5190            | 11.50               | 12.00         | 11.40               | 12.00         | 14.54               | 15.00         | 98.12        |
|                     |                     | 46      | 5230            | 12.90               | 14.00         | 12.90               | 14.00         | 16.17               | 17.00         |              |
|                     | 802.11ax-HE80 MCS0  | 42      | 5210            | 10.80               | 11.00         | 10.80               | 11.00         | 13.88               | 14.00         | 95.73        |



| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.3GHz WLAN         | 802.11a 6Mbps       | 52      | 5260            | 12.80               | 13.00         | 12.80               | 13.00         | 15.87               | 16.00         | 99.00        |
|                     |                     | 56      | 5280            | 12.60               | 13.00         | 12.80               | 13.00         | 15.92               | 16.00         |              |
|                     |                     | 60      | 5300            | 12.70               | 13.00         | 12.70               | 13.00         | 15.98               | 16.00         |              |
|                     |                     | 64      | 5320            | 12.70               | 13.00         | 12.70               | 13.00         | 15.98               | 16.00         |              |
|                     | 802.11n-HT20 MCS0   | 52      | 5260            | 12.70               | 13.50         | 12.70               | 13.50         | 15.97               | 16.50         | 98.99        |
|                     |                     | 56      | 5280            | 12.90               | 13.50         | 12.70               | 13.50         | 16.11               | 16.50         |              |
|                     |                     | 60      | 5300            | 13.00               | 13.50         | 12.80               | 13.50         | 16.11               | 16.50         |              |
|                     | 802.11n-HT40 MCS0   | 64      | 5320            | 12.90               | 13.50         | 12.90               | 13.50         | 16.17               | 16.50         | 98.47        |
|                     |                     | 54      | 5270            | 12.80               | 14.00         | 12.80               | 14.00         | 16.01               | 17.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 62      | 5310            | 11.40               | 12.00         | 11.40               | 12.00         | 14.65               | 15.00         | 98.99        |
|                     |                     | 52      | 5260            | 12.80               | 13.50         | 12.80               | 13.50         | 16.07               | 16.50         |              |
|                     |                     | 56      | 5280            | 13.00               | 13.50         | 12.80               | 13.50         | 16.17               | 16.50         |              |
|                     |                     | 60      | 5300            | 13.10               | 13.50         | 12.90               | 13.50         | 16.21               | 16.50         |              |
|                     | 802.11ac-VHT40 MCS0 | 64      | 5320            | 13.00               | 13.50         | 13.00               | 13.50         | 16.27               | 16.50         | 98.48        |
|                     |                     | 54      | 5270            | 12.90               | 14.00         | 12.90               | 14.00         | 16.11               | 17.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 62      | 5310            | 11.50               | 12.00         | 11.50               | 12.00         | 14.75               | 15.00         | 96.28        |
|                     | 802.11ac-VHT80 MCS0 | 58      | 5290            | 9.90                | 10.50         | 9.70                | 10.50         | 13.01               | 13.50         |              |
|                     | 802.11ax-HE20 MCS0  | 52      | 5260            | 12.80               | 13.50         | 12.80               | 13.50         | 16.07               | 16.50         | 98.69        |
|                     |                     | 56      | 5280            | 13.00               | 13.50         | 12.80               | 13.50         | 16.17               | 16.50         |              |
|                     |                     | 60      | 5300            | 13.10               | 13.50         | 12.90               | 13.50         | 16.21               | 16.50         |              |
|                     |                     | 64      | 5320            | 13.00               | 13.50         | 13.00               | 13.50         | 16.27               | 16.50         |              |
|                     | 802.11ax-HE40 MCS0  | 54      | 5270            | 12.90               | 14.00         | 12.90               | 14.00         | 16.11               | 17.00         | 98.12        |
|                     |                     | 62      | 5310            | 11.50               | 12.00         | 11.50               | 12.00         | 14.75               | 15.00         |              |
|                     | 802.11ax-HE80 MCS0  | 58      | 5290            | 9.90                | 10.50         | 9.70                | 10.50         | 13.01               | 13.50         | 95.73        |





| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.5GHz WLAN         | 802.11a 6Mbps       | 100     | 5500            | 12.90               | 13.50         | 12.80               | 13.50         | 16.18               | 16.50         | 99.00        |
|                     |                     | 116     | 5580            | 12.90               | 13.50         | 12.80               | 13.50         | 16.14               | 16.50         |              |
|                     |                     | 124     | 5620            | 12.90               | 13.50         | 12.80               | 13.50         | 16.10               | 16.50         |              |
|                     |                     | 132     | 5660            | 12.90               | 13.50         | 12.80               | 13.50         | 16.04               | 16.50         |              |
|                     |                     | 144     | 5720            | 12.90               | 13.50         | 12.80               | 13.50         | 15.98               | 16.50         |              |
|                     | 802.11n-HT20 MCS0   | 100     | 5500            | 13.10               | 13.50         | 13.00               | 13.50         | 16.21               | 16.50         | 98.99        |
|                     |                     | 116     | 5580            | 13.00               | 13.50         | 12.80               | 13.50         | 16.02               | 16.50         |              |
|                     |                     | 124     | 5620            | 12.80               | 13.50         | 12.70               | 13.50         | 16.08               | 16.50         |              |
|                     |                     | 132     | 5660            | 12.80               | 13.50         | 12.70               | 13.50         | 15.98               | 16.50         |              |
|                     | 802.11n-HT40 MCS0   | 102     | 5510            | 12.60               | 13.00         | 12.40               | 13.00         | 15.60               | 16.00         | 98.47        |
|                     |                     | 110     | 5550            | 13.00               | 14.00         | 12.90               | 14.00         | 16.05               | 17.00         |              |
|                     |                     | 126     | 5630            | 12.80               | 14.00         | 12.80               | 14.00         | 15.97               | 17.00         |              |
|                     |                     | 134     | 5670            | 12.80               | 14.00         | 12.80               | 14.00         | 15.92               | 17.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 100     | 5500            | 13.20               | 13.50         | 13.10               | 13.50         | 16.31               | 16.50         | 98.99        |
|                     |                     | 116     | 5580            | 13.10               | 13.50         | 12.90               | 13.50         | 16.12               | 16.50         |              |
|                     |                     | 124     | 5620            | 12.90               | 13.50         | 12.80               | 13.50         | 16.12               | 16.50         |              |
|                     |                     | 132     | 5660            | 12.90               | 13.50         | 12.80               | 13.50         | 16.04               | 16.50         |              |
|                     | 802.11ac-VHT40 MCS0 | 102     | 5510            | 12.70               | 13.00         | 12.50               | 13.00         | 15.70               | 16.00         | 98.48        |
|                     |                     | 110     | 5550            | 13.10               | 14.00         | 13.00               | 14.00         | 16.15               | 17.00         |              |
|                     |                     | 126     | 5630            | 12.90               | 14.00         | 12.90               | 14.00         | 16.11               | 17.00         |              |
|                     |                     | 134     | 5670            | 12.90               | 14.00         | 12.90               | 14.00         | 16.02               | 17.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 106     | 5530            | 10.90               | 11.50         | 10.80               | 11.50         | 14.01               | 14.50         | 96.28        |
|                     |                     | 122     | 5610            | 12.90               | 14.00         | 12.80               | 14.00         | 15.92               | 17.00         |              |
|                     | 802.11ax-HE20 MCS0  | 138     | 5690            | 12.90               | 14.00         | 12.80               | 14.00         | 15.92               | 17.00         | 98.69        |
|                     |                     | 100     | 5500            | 13.20               | 13.50         | 13.10               | 13.50         | 16.31               | 16.50         |              |
|                     |                     | 116     | 5580            | 13.10               | 13.50         | 12.90               | 13.50         | 16.12               | 16.50         |              |
|                     |                     | 124     | 5620            | 12.90               | 13.50         | 12.80               | 13.50         | 16.12               | 16.50         |              |
|                     |                     | 132     | 5660            | 12.90               | 13.50         | 12.80               | 13.50         | 16.04               | 16.50         |              |
|                     | 802.11ax-HE40 MCS0  | 144     | 5720            | 13.00               | 13.50         | 12.90               | 13.50         | 16.10               | 16.50         | 98.12        |
|                     |                     | 102     | 5510            | 12.70               | 13.00         | 12.50               | 13.00         | 15.70               | 16.00         |              |
|                     |                     | 110     | 5550            | 13.10               | 14.00         | 13.00               | 14.00         | 16.15               | 17.00         |              |
|                     |                     | 126     | 5630            | 12.90               | 14.00         | 12.90               | 14.00         | 16.11               | 17.00         |              |
|                     | 802.11ax-HE80 MCS0  | 134     | 5670            | 12.90               | 14.00         | 12.90               | 14.00         | 16.02               | 17.00         | 95.73        |
|                     |                     | 142     | 5710            | 13.00               | 14.00         | 12.90               | 14.00         | 16.02               | 17.00         |              |
|                     |                     | 106     | 5530            | 10.90               | 11.50         | 10.80               | 11.50         | 14.01               | 14.50         |              |
|                     |                     | 122     | 5610            | 12.90               | 14.00         | 12.80               | 14.00         | 15.92               | 17.00         |              |
|                     |                     | 138     | 5690            | 12.90               | 14.00         | 12.80               | 14.00         | 15.92               | 17.00         |              |



| Channel / Frequency |                     |         |                 | Ant 1               |               | Ant 2               |               | ANT 1+2             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.8GHz WLAN         | 802.11a 6Mbps       | 149     | 5745            | 12.00               | 13.00         | 11.90               | 13.00         | 15.10               | 16.00         | 99.00        |
|                     |                     | 157     | 5785            | 11.90               | 13.00         | 11.80               | 13.00         | 15.14               | 16.00         |              |
|                     |                     | 165     | 5825            | 11.90               | 13.00         | 12.00               | 13.00         | 15.18               | 16.00         |              |
|                     | 802.11n-HT20 MCS0   | 149     | 5745            | 11.80               | 13.00         | 11.70               | 13.00         | 14.98               | 16.00         | 98.99        |
|                     |                     | 157     | 5785            | 11.80               | 13.00         | 11.90               | 13.00         | 15.08               | 16.00         |              |
|                     |                     | 165     | 5825            | 11.70               | 13.00         | 11.80               | 13.00         | 14.98               | 16.00         |              |
|                     | 802.11n-HT40 MCS0   | 151     | 5755            | 11.80               | 13.00         | 11.80               | 13.00         | 15.04               | 16.00         | 98.47        |
|                     |                     | 159     | 5795            | 11.80               | 13.00         | 12.00               | 13.00         | 15.01               | 16.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 149     | 5745            | 11.80               | 13.00         | 11.70               | 13.00         | 15.04               | 16.00         | 98.99        |
|                     |                     | 157     | 5785            | 11.80               | 13.00         | 12.00               | 13.00         | 15.12               | 16.00         |              |
|                     |                     | 165     | 5825            | 11.70               | 13.00         | 11.80               | 13.00         | 15.04               | 16.00         |              |
|                     | 802.11ac-VHT40 MCS0 | 151     | 5755            | 11.80               | 13.00         | 11.80               | 13.00         | 15.08               | 16.00         | 98.48        |
|                     |                     | 159     | 5795            | 11.80               | 13.00         | 12.00               | 13.00         | 15.07               | 16.00         |              |
|                     | 802.11ac-VHT80 MCS0 | 155     | 5775            | 11.70               | 13.00         | 12.00               | 13.00         | 15.04               | 16.00         | 96.28        |
|                     | 802.11ax-HE20 MCS0  | 149     | 5745            | 11.90               | 13.00         | 11.90               | 13.00         | 15.10               | 16.00         | 98.69        |
|                     |                     | 157     | 5785            | 11.90               | 13.00         | 11.80               | 13.00         | 15.14               | 16.00         |              |
|                     |                     | 165     | 5825            | 11.90               | 13.00         | 11.70               | 13.00         | 15.18               | 16.00         |              |
|                     | 802.11ax-HE40 MCS0  | 151     | 5755            | 11.80               | 13.00         | 12.10               | 13.00         | 15.10               | 16.00         | 98.12        |
|                     |                     | 159     | 5795            | 12.10               | 13.00         | 11.90               | 13.00         | 15.22               | 16.00         |              |
|                     | 802.11ax-HE80 MCS0  | 155     | 5775            | 11.80               | 13.00         | 12.00               | 13.00         | 15.16               | 16.00         | 95.73        |

## General Note:

- For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 77.22% considered in SAR testing, and the duty cycle would be scaled to theoretica

### Ant 1

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |       |
|---------------|---------|-----------------|---------------------|-------|-------|
|               |         |                 | 1Mbps               | 2Mbps | 3Mbps |
| BR / EDR      | CH 00   | 2402            | 13.33               | 8.78  | 8.80  |
|               | CH 39   | 2441            | 13.62               | 8.85  | 8.86  |
|               | CH 78   | 2480            | 13.52               | 8.89  | 8.91  |
| Tune-up Limit |         |                 | 14.00               | 9.00  | 9.00  |

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |
|---------------|---------|-----------------|---------------------|-------|
|               |         |                 | 1Mbps               | 2Mbps |
| LE            | CH 00   | 2402            | 6.40                | 6.30  |
|               | CH 19   | 2440            | 6.50                | 6.30  |
|               | CH 39   | 2480            | 6.00                | 6.00  |
| Tune-up Limit |         |                 | 8.00                | 8.00  |

### Ant 2

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |       |
|---------------|---------|-----------------|---------------------|-------|-------|
|               |         |                 | 1Mbps               | 2Mbps | 3Mbps |
| BR / EDR      | CH 00   | 2402            | 12.55               | 8.02  | 8.04  |
|               | CH 39   | 2441            | 13.33               | 8.64  | 8.66  |
|               | CH 78   | 2480            | 13.22               | 8.70  | 8.74  |
| Tune-up Limit |         |                 | 14.00               | 9.00  | 9.00  |

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |
|---------------|---------|-----------------|---------------------|-------|
|               |         |                 | 1Mbps               | 2Mbps |
| LE            | CH 00   | 2402            | 7.20                | 7.10  |
|               | CH 19   | 2440            | 7.30                | 7.20  |
|               | CH 39   | 2480            | 6.50                | 6.40  |
| Tune-up Limit |         |                 | 8.00                | 8.00  |