

## Full Power Mode

| GSM850 Ant0 Default   |                         |                           |       |        |                     |                           |        |        |                     |
|-----------------------|-------------------------|---------------------------|-------|--------|---------------------|---------------------------|--------|--------|---------------------|
| GSM850                |                         | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |        |        | Tune-up Limit (dBm) |
| TX Channel            |                         | 128                       | 189   | 251    |                     | 128                       | 189    | 251    |                     |
| Frequency (MHz)       |                         | 824.2                     | 836.4 | 848.8  |                     | 824.2                     | 836.4  | 848.8  |                     |
| GSM 1 Tx slot         |                         | 32.30                     | 32.53 | 32.44  | 33.50               | 23.30                     | 23.53  | 23.44  | 24.50               |
| GPRS 1 Tx slot        |                         | 32.31                     | 32.55 | 32.46  | 33.50               | 23.31                     | 23.55  | 23.46  | 24.50               |
| GPRS 2 Tx slots       |                         | 30.72                     | 30.88 | 30.75  | 32.00               | 24.72                     | 24.88  | 24.75  | 26.00               |
| GPRS 3 Tx slots       |                         | 28.67                     | 28.78 | 28.74  | 30.00               | 24.41                     | 24.52  | 24.48  | 25.74               |
| GPRS 4 Tx slots       |                         | 26.61                     | 26.66 | 26.71  | 27.50               | 23.61                     | 23.66  | 23.71  | 24.50               |
| EDGE 1 Tx slot        |                         | 26.14                     | 26.24 | 26.17  | 27.00               | 17.14                     | 17.24  | 17.17  | 18.00               |
| EDGE 2 Tx slots       |                         | 24.94                     | 25.10 | 25.00  | 26.00               | 18.94                     | 19.10  | 19.00  | 20.00               |
| EDGE 3 Tx slots       |                         | 22.92                     | 22.76 | 22.91  | 24.00               | 18.66                     | 18.50  | 18.65  | 19.74               |
| EDGE 4 Tx slots       |                         | 20.81                     | 20.76 | 20.47  | 22.00               | 17.81                     | 17.76  | 17.47  | 19.00               |
| GSM1900 Ant0 Default  |                         |                           |       |        |                     |                           |        |        |                     |
| GSM1900               |                         | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |        |        | Tune-up Limit (dBm) |
| TX Channel            |                         | 512                       | 661   | 810    |                     | 512                       | 661    | 810    |                     |
| Frequency (MHz)       |                         | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880   | 1909.8 |                     |
| GSM 1 Tx slot         |                         | 29.95                     | 30.02 | 29.91  | 30.50               | 20.95                     | 21.02  | 20.91  | 21.50               |
| GPRS 1 Tx slot        |                         | 30.04                     | 30.06 | 29.68  | 30.50               | 21.04                     | 21.06  | 20.68  | 21.50               |
| GPRS 2 Tx slots       |                         | 28.44                     | 28.52 | 28.17  | 29.50               | 22.44                     | 22.52  | 22.17  | 23.50               |
| GPRS 3 Tx slots       |                         | 26.42                     | 26.55 | 26.22  | 27.50               | 22.16                     | 22.29  | 21.96  | 23.24               |
| GPRS 4 Tx slots       |                         | 24.23                     | 24.28 | 23.95  | 25.00               | 21.23                     | 21.28  | 20.95  | 22.00               |
| EDGE 1 Tx slot        |                         | 25.67                     | 25.85 | 25.47  | 27.00               | 16.67                     | 16.85  | 16.47  | 18.00               |
| EDGE 2 Tx slots       |                         | 24.46                     | 24.52 | 24.17  | 25.50               | 18.46                     | 18.52  | 18.17  | 19.50               |
| EDGE 3 Tx slots       |                         | 22.44                     | 22.44 | 22.00  | 23.50               | 18.18                     | 18.18  | 17.74  | 19.24               |
| EDGE 4 Tx slots       |                         | 20.22                     | 20.31 | 20.01  | 21.50               | 17.22                     | 17.31  | 17.01  | 18.50               |
| WCDMA II Ant0 Default |                         |                           |       |        |                     |                           |        |        |                     |
| Band                  |                         | WCDMA II                  |       |        | Tune-up Limit (dBm) | WCDMA IV                  |        |        | Tune-up Limit (dBm) |
| TX Channel            |                         | 9262                      | 9400  | 9538   |                     | 1312                      | 1413   | 1513   |                     |
| Rx Channel            |                         | 9662                      | 9800  | 9938   |                     | 1537                      | 1638   | 1738   |                     |
| Frequency (MHz)       |                         | 1952.4                    | 1980  | 1907.6 |                     | 1712.4                    | 1732.6 | 1752.6 |                     |
| 3GPP Rel 99           | AMR 12.2Kbps            | 22.80                     | 22.82 | 22.61  | 24.00               | 22.91                     | 23.02  | 22.93  | 24.00               |
| 3GPP Rel 99           | RMC 12.2Kbps            | 22.95                     | 22.89 | 22.77  | 24.00               | 23.02                     | 23.17  | 23.06  | 24.00               |
| 3GPP Rel 6            | HSDPA Subtest-1         | 21.86                     | 21.97 | 21.85  | 23.00               | 21.69                     | 21.82  | 21.70  | 23.00               |
| 3GPP Rel 6            | HSDPA Subtest-2         | 21.87                     | 22.02 | 21.96  | 23.00               | 21.75                     | 21.89  | 21.81  | 23.00               |
| 3GPP Rel 6            | HSDPA Subtest-3         | 21.48                     | 21.45 | 21.55  | 22.50               | 21.34                     | 21.25  | 21.35  | 22.50               |
| 3GPP Rel 6            | HSDPA Subtest-4         | 21.41                     | 21.51 | 21.51  | 22.50               | 21.30                     | 21.38  | 21.42  | 22.50               |
| 3GPP Rel 8            | DC-HSDPA Subtest-1      | 22.01                     | 22.00 | 21.76  | 23.00               | 21.83                     | 21.89  | 21.82  | 23.00               |
| 3GPP Rel 8            | DC-HSDPA Subtest-2      | 21.81                     | 22.06 | 21.88  | 23.00               | 21.72                     | 21.89  | 21.76  | 23.00               |
| 3GPP Rel 8            | DC-HSDPA Subtest-3      | 21.52                     | 21.54 | 21.46  | 22.50               | 21.37                     | 21.42  | 21.37  | 22.50               |
| 3GPP Rel 8            | DC-HSDPA Subtest-4      | 21.37                     | 21.58 | 21.53  | 22.50               | 21.18                     | 21.47  | 21.40  | 22.50               |
| 3GPP Rel 6            | HSUPA Subtest-1         | 21.81                     | 21.98 | 21.88  | 23.00               | 21.67                     | 21.81  | 21.76  | 23.00               |
| 3GPP Rel 6            | HSUPA Subtest-2         | 20.01                     | 20.07 | 19.97  | 21.00               | 19.92                     | 19.88  | 19.88  | 21.00               |
| 3GPP Rel 6            | HSUPA Subtest-3         | 20.90                     | 20.99 | 20.87  | 22.00               | 20.78                     | 20.85  | 20.69  | 22.00               |
| 3GPP Rel 6            | HSUPA Subtest-4         | 20.01                     | 19.94 | 19.82  | 21.00               | 19.80                     | 19.85  | 19.70  | 21.00               |
| 3GPP Rel 6            | HSUPA Subtest-5         | 21.93                     | 21.91 | 22.03  | 23.00               | 21.79                     | 21.78  | 21.92  | 23.00               |
| 3GPP Rel 7            | HSPA+ (16QAM) Subtest-1 | 19.43                     | 19.52 | 19.44  | 20.50               | 19.29                     | 19.36  | 19.29  | 20.50               |
| WCDMA V Ant0 Default  |                         |                           |       |        |                     |                           |        |        |                     |
|                       |                         | WCDMA V                   |       |        | Tune-up Limit (dBm) |                           |        |        | Tune-up Limit (dBm) |
|                       |                         | 4132                      | 4182  | 4233   |                     | 4357                      | 4407   | 4458   |                     |
|                       |                         | 826.4                     | 836.4 | 846.6  |                     |                           |        |        |                     |
| 3GPP Rel 99           |                         | 22.86                     | 23.12 | 23.10  | 24.00               | 22.86                     | 23.12  | 23.10  | 24.00               |
| 3GPP Rel 6            |                         | 23.00                     | 23.24 | 23.23  | 24.00               | 23.00                     | 23.24  | 23.23  | 24.00               |
| 3GPP Rel 6            |                         | 21.81                     | 22.00 | 21.81  | 23.00               | 21.81                     | 22.00  | 21.81  | 23.00               |
| 3GPP Rel 6            |                         | 21.84                     | 22.06 | 21.91  | 23.00               | 21.84                     | 22.06  | 21.91  | 23.00               |
| 3GPP Rel 6            |                         | 21.50                     | 21.40 | 21.54  | 22.50               | 21.50                     | 21.40  | 21.54  | 22.50               |
| 3GPP Rel 6            |                         | 21.47                     | 21.51 | 21.62  | 22.50               | 21.47                     | 21.51  | 21.62  | 22.50               |
| 3GPP Rel 8            |                         | 21.95                     | 22.00 | 21.73  | 23.00               | 21.95                     | 22.00  | 21.73  | 23.00               |
| 3GPP Rel 8            |                         | 21.85                     | 22.10 | 21.88  | 23.00               | 21.85                     | 22.10  | 21.88  | 23.00               |
| 3GPP Rel 8            |                         | 21.47                     | 21.62 | 21.52  | 22.50               | 21.47                     | 21.62  | 21.52  | 22.50               |
| 3GPP Rel 8            |                         | 21.37                     | 21.57 | 21.51  | 22.50               | 21.37                     | 21.57  | 21.51  | 22.50               |
| 3GPP Rel 6            |                         | 21.82                     | 21.99 | 21.90  | 23.00               | 21.82                     | 21.99  | 21.90  | 23.00               |
| 3GPP Rel 6            |                         | 20.04                     | 20.06 | 20.08  | 21.00               | 20.04                     | 20.06  | 20.08  | 21.00               |
| 3GPP Rel 6            |                         | 20.91                     | 21.01 | 20.84  | 22.00               | 20.91                     | 21.01  | 20.84  | 22.00               |
| 3GPP Rel 6            |                         | 19.92                     | 19.95 | 19.83  | 21.00               | 19.92                     | 19.95  | 19.83  | 21.00               |
| 3GPP Rel 6            |                         | 21.95                     | 21.95 | 22.03  | 23.00               | 21.95                     | 21.95  | 22.03  | 23.00               |
| 3GPP Rel 7            |                         | 19.48                     | 19.55 | 19.40  | 20.50               | 19.48                     | 19.55  | 19.40  | 20.50               |



| Band 2 Ant0 Default |            |         |           |                     |                     |                     |                    |          |  |
|---------------------|------------|---------|-----------|---------------------|---------------------|---------------------|--------------------|----------|--|
| BW (MHz)            | Modulation | RB Size | RB Offset | Power Max Ch./Freq. | Power Min Ch./Freq. | Power Low Ch./Freq. | Turn-up Intvl (dB) | MPE (dB) |  |
| Channel             |            |         |           |                     |                     |                     |                    |          |  |
| Frequency (MHz)     |            |         |           |                     |                     |                     |                    |          |  |
| 20                  | QPSK       | 1       | 0         | 22.23               | 22.27               | 22.24               |                    |          |  |
| 20                  | QPSK       | 1       | 49        | 22.18               | 22.19               | 22.18               | 24                 | 0        |  |
| 20                  | QPSK       | 1       | 99        | 22.10               | 22.22               | 22.18               |                    |          |  |
| 20                  | QPSK       | 50      | 0         | 21.35               | 21.36               | 21.33               |                    |          |  |
| 20                  | QPSK       | 24      | 0         | 21.23               | 21.28               | 21.25               |                    |          |  |
| 20                  | QPSK       | 50      | 50        | 21.19               | 21.24               | 21.28               | 23                 | 1        |  |
| 20                  | 16QAM      | 1       | 49        | 21.31               | 21.48               | 21.32               | 23                 | 1        |  |
| 20                  | 16QAM      | 1       | 99        | 21.24               | 21.49               | 21.34               |                    |          |  |
| 20                  | 16QAM      | 50      | 0         | 20.39               | 20.45               | 20.39               |                    |          |  |
| 20                  | 16QAM      | 50      | 24        | 20.33               | 20.35               | 20.28               | 22                 | 2        |  |
| 20                  | 16QAM      | 50      | 50        | 20.32               | 20.41               | 20.30               |                    |          |  |
| 20                  | 16QAM      | 100     | 0         | 20.29               | 20.38               | 20.21               |                    |          |  |
| 20                  | 64QAM      | 1       | 0         | 20.58               | 20.65               | 20.54               |                    |          |  |
| 20                  | 64QAM      | 1       | 49        | 20.46               | 20.59               | 20.46               | 22                 | 2        |  |
| 20                  | 64QAM      | 50      | 0         | 20.53               | 20.53               | 20.48               |                    |          |  |
| 20                  | 64QAM      | 50      | 0         | 19.35               | 19.44               | 19.39               |                    |          |  |
| 20                  | 64QAM      | 1       | 99        | 19.22               | 19.31               | 19.26               |                    |          |  |
| 20                  | 64QAM      | 50      | 25        | 19.27               | 19.37               | 19.24               | 21                 | 3        |  |
| 20                  | 64QAM      | 100     | 0         | 19.41               | 19.52               | 19.39               |                    |          |  |
| 20                  | 256QAM     | 1       | 0         | 17.41               | 17.46               | 17.43               |                    |          |  |
| 20                  | 256QAM     | 1       | 49        | 17.32               | 17.42               | 17.35               | 19                 | 5        |  |
| 20                  | 256QAM     | 1       | 99        | 17.16               | 17.35               | 17.28               |                    |          |  |
| 20                  | 256QAM     | 50      | 0         | 17.32               | 17.39               | 17.32               |                    |          |  |
| 20                  | 256QAM     | 24      | 0         | 17.15               | 17.20               | 17.21               | 19                 | 5        |  |
| 20                  | 256QAM     | 50      | 50        | 17.11               | 17.19               | 17.21               |                    |          |  |
| 20                  | 256QAM     | 100     | 0         | 17.17               | 17.23               | 17.20               |                    |          |  |
| Channel             |            |         |           |                     |                     |                     |                    |          |  |
| Frequency (MHz)     |            |         |           |                     |                     |                     |                    |          |  |
| 15                  | QPSK       | 1       | 0         | 18.07               | 18.00               | 18.03               |                    |          |  |
| 15                  | QPSK       | 1       | 0         | 22.12               | 22.21               | 22.18               | 24                 | 0        |  |
| 15                  | QPSK       | 1       | 37        | 22.02               | 22.07               | 22.05               |                    |          |  |
| 15                  | QPSK       | 1       | 74        | 22.01               | 22.13               | 22.08               |                    |          |  |
| 15                  | QPSK       | 36      | 0         | 21.28               | 21.29               | 21.27               |                    |          |  |
| 15                  | QPSK       | 25      | 0         | 21.07               | 21.14               | 21.04               | 23                 | 1        |  |
| 15                  | QPSK       | 36      | 36        | 21.07               | 21.16               | 21.10               |                    |          |  |
| 15                  | 16QAM      | 1       | 0         | 21.35               | 21.48               | 21.35               |                    |          |  |
| 15                  | 16QAM      | 1       | 49        | 21.24               | 21.47               | 21.28               | 23                 | 1        |  |
| 15                  | 16QAM      | 1       | 99        | 21.16               | 21.48               | 21.18               |                    |          |  |
| 15                  | 16QAM      | 36      | 0         | 20.33               | 20.30               | 20.19               |                    |          |  |
| 15                  | 16QAM      | 36      | 20        | 20.24               | 20.21               | 20.14               | 22                 | 2        |  |
| 15                  | 16QAM      | 36      | 36        | 20.27               | 20.32               | 20.28               |                    |          |  |
| 15                  | 16QAM      | 75      | 0         | 20.22               | 20.25               | 20.16               |                    |          |  |
| 15                  | 64QAM      | 1       | 0         | 20.51               | 20.59               | 20.40               |                    |          |  |
| 15                  | 64QAM      | 37      | 0         | 20.37               | 20.36               | 20.28               | 22                 | 2        |  |
| 15                  | 64QAM      | 1       | 74        | 20.46               | 20.38               | 20.28               |                    |          |  |
| 15                  | 64QAM      | 36      | 0         | 19.25               | 19.34               | 19.29               |                    |          |  |
| 15                  | 64QAM      | 36      | 20        | 19.12               | 19.35               | 19.25               | 21                 | 3        |  |
| 15                  | 64QAM      | 36      | 36        | 19.22               | 19.25               | 19.15               |                    |          |  |
| 15                  | 64QAM      | 75      | 0         | 19.57               | 19.42               | 19.27               |                    |          |  |
| 15                  | 256QAM     | 1       | 49        | 17.28               | 17.38               | 17.30               |                    |          |  |
| 15                  | 256QAM     | 1       | 37        | 17.16               | 17.17               | 17.22               | 19                 | 5        |  |
| 15                  | 256QAM     | 1       | 74        | 17.08               | 17.30               | 17.14               |                    |          |  |
| 15                  | 256QAM     | 36      | 0         | 17.22               | 17.29               | 17.25               |                    |          |  |
| 15                  | 256QAM     | 36      | 20        | 17.02               | 17.12               | 17.14               | 19                 | 5        |  |
| 15                  | 256QAM     | 36      | 39        | 17.03               | 17.03               | 17.05               |                    |          |  |
| 15                  | 256QAM     | 75      | 0         | 17.11               | 17.17               | 17.15               |                    |          |  |
| Channel             |            |         |           |                     |                     |                     |                    |          |  |
| Frequency (MHz)     |            |         |           |                     |                     |                     |                    |          |  |
| 10                  | QPSK       | 1       | 0         | 22.12               | 22.17               | 22.15               | 24                 | 0        |  |
| 10                  | QPSK       | 1       | 25        | 22.01               | 22.03               | 22.08               |                    |          |  |
| 10                  | QPSK       | 1       | 49        | 22.03               | 22.10               | 22.08               |                    |          |  |
| 10                  | QPSK       | 1       | 99        | 21.97               | 22.08               | 22.01               | 23                 | 1        |  |
| 10                  | QPSK       | 25      | 12        | 21.17               | 21.16               | 21.08               |                    |          |  |
| 10                  | QPSK       | 25      | 25        | 21.05               | 21.16               | 21.19               |                    |          |  |
| 10                  | QPSK       | 100     | 0         | 21.46               | 21.48               | 21.46               |                    |          |  |
| 10                  | 16QAM      | 1       | 0         | 21.27               | 21.54               | 21.28               | 23                 | 1        |  |
| 10                  | 16QAM      | 1       | 49        | 21.14               | 21.38               | 21.18               |                    |          |  |
| 10                  | 16QAM      | 25      | 0         | 20.24               | 20.37               | 20.19               |                    |          |  |
| 10                  | 16QAM      | 25      | 12        | 20.24               | 20.22               | 20.14               | 22                 | 2        |  |
| 10                  | 16QAM      | 25      | 25        | 20.17               | 20.22               | 20.28               |                    |          |  |
| 10                  | 16QAM      | 50      | 0         | 20.24               | 20.30               | 20.13               |                    |          |  |
| 10                  | 64QAM      | 1       | 0         | 20.48               | 20.60               | 20.42               |                    |          |  |
| 10                  | 64QAM      | 1       | 25        | 20.33               | 20.43               | 20.40               | 22                 | 2        |  |
| 10                  | 64QAM      | 1       | 49        | 20.39               | 20.44               | 20.40               |                    |          |  |
| 10                  | 64QAM      | 25      | 0         | 19.21               | 19.37               | 19.30               |                    |          |  |
| 10                  | 64QAM      | 12      | 0         | 19.11               | 19.28               | 19.19               | 21                 | 3        |  |
| 10                  | 64QAM      | 25      | 25        | 19.21               | 19.24               | 19.16               |                    |          |  |
| 10                  | 64QAM      | 50      | 0         | 19.32               | 19.41               | 19.30               |                    |          |  |
| 10                  | 256QAM     | 1       | 49        | 17.36               | 17.38               | 17.36               |                    |          |  |
| 10                  | 256QAM     | 1       | 25        | 17.14               | 17.16               | 17.18               | 19                 | 5        |  |
| 10                  | 256QAM     | 1       | 49        | 17.11               | 17.21               | 17.13               |                    |          |  |
| 10                  | 256QAM     | 12      | 0         | 17.22               | 17.26               | 17.22               |                    |          |  |
| 10                  | 256QAM     | 25      | 12        | 17.07               | 17.08               | 17.18               | 19                 | 5        |  |
| 10                  | 256QAM     | 25      | 25        | 17.09               | 17.08               | 17.06               |                    |          |  |
| 10                  | 256QAM     | 50      | 0         | 17.11               | 17.17               | 17.09               |                    |          |  |
| Channel             |            |         |           |                     |                     |                     |                    |          |  |
| Frequency (MHz)     |            |         |           |                     |                     |                     |                    |          |  |
| 5                   | QPSK       | 1       | 0         | 22.12               | 22.10               | 22.13               |                    |          |  |
| 5                   | QPSK       | 1       | 12        | 22.04               | 22.02               | 22.03               | 24                 | 0        |  |
| 5                   | QPSK       | 1       | 24        | 22.07               | 22.07               | 22.02               |                    |          |  |
| 5                   | QPSK       | 12      | 0         | 21.13               | 21.23               | 21.18               |                    |          |  |
| 5                   | QPSK       | 12      | 7         | 21.16               | 21.14               | 21.04               | 23                 | 1        |  |
| 5                   | QPSK       | 12      | 13        | 21.12               | 21.13               | 21.18               |                    |          |  |
| 5                   | QPSK       | 25      | 0         | 21.13               | 21.38               | 21.13               |                    |          |  |
| 5                   | 16QAM      | 1       | 0         | 21.34               | 21.48               | 21.33               | 23                 | 1        |  |
| 5                   | 16QAM      | 1       | 12        | 21.21               | 21.36               | 21.18               |                    |          |  |
| 5                   | 16QAM      | 1       | 24        | 21.08               | 21.37               | 21.05               |                    |          |  |
| 5                   | 16QAM      | 12      | 0         | 20.32               | 20.31               | 20.28               |                    |          |  |
| 5                   | 16QAM      | 12      | 7         | 20.25               | 20.25               | 20.16               | 22                 | 2        |  |
| 5                   | 16QAM      | 12      | 13        | 20.21               | 20.35               | 20.24               |                    |          |  |
| 5                   | 16QAM      | 25      | 0         | 20.13               | 20.27               | 20.15               |                    |          |  |
| 5                   | 64QAM      | 1       | 0         | 20.47               | 20.58               | 20.47               |                    |          |  |
| 5                   | 64QAM      | 1       | 12        | 20.41               | 20.38               | 20.30               | 22                 | 2        |  |
| 5                   | 64QAM      | 1       | 24        | 20.43               | 20.39               | 20.43               |                    |          |  |
| 5                   | 64QAM      | 12      | 0         | 19.26               | 19.30               | 19.24               |                    |          |  |
| 5                   | 64QAM      | 12      | 7         | 19.09               | 19.15               | 19.14               | 21                 | 3        |  |
| 5                   | 64QAM      | 12      | 13        | 19.17               | 19.23               | 19.17               |                    |          |  |
| 5                   | 64QAM      | 25      | 0         | 19.26               | 19.48               | 19.34               |                    |          |  |
| 5                   | 256QAM     | 1       | 0         | 17.31               | 17.39               | 17.34               |                    |          |  |
| 5                   | 256QAM     | 1       | 12        | 17.09               | 17.16               | 17.25               | 19                 | 5        |  |
| 5                   | 256QAM     | 1       | 24        | 17.11               | 17.23               | 17.16               |                    |          |  |
| 5                   | 256QAM     | 12      | 0         | 17.25               | 17.18               | 17.17               |                    |          |  |
| 5                   | 256QAM     | 12      | 7         | 17.07               | 17.05               | 17.09               | 19                 | 5        |  |
| 5                   | 256QAM     | 12      | 13        | 17.01               | 17.09               | 17.15               |                    |          |  |
| 5                   | 256QAM     | 25      | 0         | 17.02               | 17.18               | 17.05               |                    |          |  |
| Channel             |            |         |           |                     |                     |                     |                    |          |  |
| Frequency (MHz)     |            |         |           |                     |                     |                     |                    |          |  |
| 3                   | QPSK       | 1       | 0         | 22.12               | 22.17               | 22.15               |                    |          |  |
| 3                   | QPSK       | 1       | 8         | 22.09               | 22.12               | 22.08               | 24                 | 0        |  |
| 3                   | QPSK       | 1       | 14        | 22.01               | 22.09               | 22.02               |                    |          |  |
| 3                   | QPSK       | 3       | 0         | 21.05               | 21.20               | 21.07               |                    |          |  |
| 3                   | QPSK       | 8       | 4         | 21.15               | 21.12               | 21.08               | 23                 | 1        |  |
| 3                   | QPSK       | 8       | 7         | 21.13               | 21.12               | 21.18               |                    |          |  |
| 3                   | QPSK       | 15      | 0         | 21.38               | 21.47               | 21.37               |                    |          |  |
| 3                   | 16QAM      | 1       | 0         | 21.35               | 21.48               | 21.32               | 23                 | 1        |  |
| 3                   | 16QAM      | 1       | 8         | 21.27               | 21.33               | 21.21               |                    |          |  |
| 3                   | 16QAM      | 1       | 14        | 21.13               | 21.44               | 21.34               |                    |          |  |
| 3                   | 16QAM      | 8       | 0         | 20.20               | 20.23               | 20.19               | 22                 | 2        |  |
| 3                   | 16QAM      | 8       | 4         | 20.20               | 20.27               | 20.23               |                    |          |  |
| 3                   | 16QAM      | 15      | 0         | 20.23               | 20.26               | 20.23               |                    |          |  |
| 3                   | 16QAM      | 15      | 0         | 20.23               | 20.26               | 20.11               |                    |          |  |
| 3                   | 64QAM      | 1       | 0         | 20.47               | 20.54               | 20.41               |                    |          |  |
| 3                   | 64QAM      | 1       | 8         | 20.36               | 20.43               | 20.35               | 22                 | 2        |  |
| 3                   | 64QAM      | 1       | 14        | 20.44               | 20.42               | 20.37               |                    |          |  |
| 3                   | 64QAM      | 8       | 0         | 19.13               | 19.19               | 19.02               |                    |          |  |
| 3                   | 64QAM      | 8       | 7         | 19.13               | 19.26               | 19.20               | 21                 | 3        |  |
| 3                   | 64QAM      | 15      | 0         | 17.34               | 17.31               | 17.33               |                    |          |  |
| 3                   | 256QAM     | 1       | 0         | 17.34               | 17.32               | 17.33               |                    |          |  |
| 3                   | 256QAM     | 1       | 8         | 17.14               | 17.14               | 17.21               | 19                 | 5        |  |
| 3                   | 256QAM     | 1       | 14        | 17.04               | 17.29               | 17.17               |                    |          |  |
| 3                   | 256QAM     | 8       | 0         | 17.23               | 17.27               | 17.22               |                    |          |  |
| 3                   | 256QAM     | 8       | 4         | 17.09               | 17.05               | 17.05               | 19                 | 5        |  |
| 3                   | 256QAM     | 8       | 7         | 17.02               | 17.12               | 17.04               |                    |          |  |
| 3                   | 256QAM     | 15      | 0         | 17.10               | 17.14               | 17.05               |                    |          |  |
| Channel             |            |         |           |                     |                     |                     |                    |          |  |
| Frequency (MHz)     |            |         |           |                     |                     |                     |                    |          |  |
| 1.4                 | QPSK       | 1       | 0         | 22.11               | 22.23               | 22.08               |                    |          |  |
| 1.4                 | QPSK       | 1       | 3         | 22.01               | 22.12               | 22.07               | 24                 | 0        |  |
| 1.4                 | QPSK       | 1       | 5         | 22.09               | 22.11               | 22.04               |                    |          |  |
| 1.4                 | QPSK       | 3       | 0         | 22.00               | 22.18               | 22.10               |                    |          |  |
| 1.4                 | QPSK       | 3       | 1         | 22.05               | 22.06               | 22.00               |                    |          |  |
| 1.4                 | QPSK       | 3       | 3         | 22.03               | 22.09               | 22.00               | 23                 | 1        |  |
| 1.4                 | 16QAM      | 1       | 0         | 21.36               | 21.58               | 21.34               | 23                 | 1        |  |
| 1.4                 | 16QAM      | 1       | 3         | 21.18               | 21.47               | 21.18               |                    |          |  |
| 1.4                 | 16QAM      | 1       | 5         | 21.28               | 21.58               | 21.28               |                    |          |  |
| 1.4                 | 16QAM      | 3       | 0         | 21.28               | 21.38               | 21.31               |                    |          |  |
| 1.4                 | 16QAM      | 3       | 1         | 21.08               | 21.37               | 21.08               |                    |          |  |
| 1.4                 | 16QAM      | 6       | 0         | 20.21               | 20.23               | 20.09               | 22                 | 2        |  |
| 1.4                 | 16QAM      | 6       | 3         | 20.44               | 20.52               | 20.41               |                    |          |  |
| 1.4                 | 16QAM      | 6       | 5         | 20.42               | 20.58               | 20.42               |                    |          |  |
| 1.4                 | 16QAM      | 6       | 8         | 20.38               | 20.43               | 20.33               | 22                 | 2        |  |
| 1.4                 | 16QAM      | 6       | 9         | 20.44               | 20.42               | 20.32               |                    |          |  |
| 1.4                 | 16QAM      | 6       | 12        | 20.37               | 20.43               | 20.37               |                    |          |  |
| 1.4                 | 16QAM      | 6       | 3         | 20.39               | 20.33               | 20.34               | 21                 | 3        |  |
| 1.4                 | 16QAM      | 6       | 6         | 19.30               | 19.44               | 19.34               |                    |          |  |
| 1.4                 | 16QAM      | 6       | 9         | 19.32               | 19.39               | 19.31               |                    |          |  |
| 1.4                 | 16QAM      | 6       | 12        | 19.31               | 19.39               | 19.31               |                    |          |  |
| 1.4                 | 256QAM     | 1       | 3         | 17.10               | 17.17               | 17.17               |                    |          |  |
| 1.4                 | 256QAM     | 1       | 6         | 17.08               | 17.24               | 17.09               |                    |          |  |
|                     |            |         |           |                     |                     |                     |                    |          |  |

| Band 12 Ant0 Default |                 |         |           |             |             |             |             |                    |          |  |
|----------------------|-----------------|---------|-----------|-------------|-------------|-------------|-------------|--------------------|----------|--|
| RF (MHz)             | Modulation      | RB Size | RB Offset | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) | Transmitting (dBm) | MFR (dB) |  |
| Channel              |                 |         |           | 23060       | 23095       | 23130       | 23165       |                    |          |  |
| 10                   | Frequency (MHz) | 1       | 0         | 22.87       | 22.71       | 23.00       | 23.20       |                    |          |  |
| 10                   | QPSK            | 1       | 26        | 22.87       | 22.68       | 22.98       | 23.18       | 24                 | 0        |  |
| 10                   | QPSK            | 1       | 49        | 21.63       | 21.44       | 21.74       | 21.94       |                    |          |  |
| 10                   | QPSK            | 25      | 0         | 21.63       | 21.73       | 21.85       | 21.95       |                    |          |  |
| 10                   | QPSK            | 25      | 12        | 21.41       | 21.47       | 21.73       | 21.78       | 23                 | 1        |  |
| 10                   | QPSK            | 25      | 24        | 21.60       | 21.61       | 21.86       | 21.87       |                    |          |  |
| 10                   | QPSK            | 50      | 0         | 21.53       | 21.55       | 21.81       | 21.83       | 21                 | 3        |  |
| 10                   | HQAM            | 1       | 0         | 21.89       | 21.85       | 21.73       | 21.71       |                    |          |  |
| 10                   | HQAM            | 1       | 26        | 21.89       | 21.85       | 21.73       | 21.71       |                    |          |  |
| 10                   | HQAM            | 1       | 49        | 21.62       | 21.76       | 21.69       | 21.69       |                    |          |  |
| 10                   | HQAM            | 25      | 0         | 20.80       | 20.65       | 20.73       | 20.73       |                    |          |  |
| 10                   | HQAM            | 25      | 12        | 20.54       | 20.68       | 20.83       | 20.84       | 22                 | 2        |  |
| 10                   | HQAM            | 25      | 24        | 20.70       | 20.76       | 20.76       | 20.76       |                    |          |  |
| 10                   | HQAM            | 25      | 36        | 20.74       | 20.79       | 20.81       | 20.81       |                    |          |  |
| 10                   | HQAM            | 50      | 0         | 20.54       | 20.68       | 20.83       | 20.84       |                    |          |  |
| 10                   | HQAM            | 50      | 12        | 20.52       | 20.66       | 20.81       | 20.82       | 22                 | 2        |  |
| 10                   | HQAM            | 1       | 26        | 20.57       | 20.67       | 20.54       | 20.54       |                    |          |  |
| 10                   | HQAM            | 1       | 49        | 20.62       | 20.59       | 20.59       | 20.59       |                    |          |  |
| 10                   | HQAM            | 25      | 12        | 19.52       | 19.63       | 19.38       | 19.38       | 21                 | 3        |  |
| 10                   | HQAM            | 25      | 24        | 19.58       | 19.68       | 19.45       | 19.45       |                    |          |  |
| 10                   | HQAM            | 25      | 36        | 19.50       | 19.61       | 19.38       | 19.38       |                    |          |  |
| 10                   | HQAM            | 1       | 0         | 17.69       | 17.77       | 17.58       | 17.58       |                    |          |  |
| 10                   | HQAM            | 1       | 26        | 17.60       | 17.77       | 17.58       | 17.58       | 19                 | 5        |  |
| 10                   | HQAM            | 1       | 49        | 17.73       | 17.79       | 17.61       | 17.61       |                    |          |  |
| 10                   | HQAM            | 25      | 12        | 17.55       | 17.69       | 17.59       | 17.59       | 19                 | 5        |  |
| 10                   | HQAM            | 25      | 24        | 17.73       | 17.79       | 17.61       | 17.61       |                    |          |  |
| 10                   | HQAM            | 50      | 0         | 17.65       | 17.82       | 17.61       | 17.61       |                    |          |  |
| Channel              |                 |         |           | 23060       | 23095       | 23130       | 23165       | Transmitting (dBm) | MFR (dB) |  |
| 5                    | Frequency (MHz) | 1       | 0         | 22.57       | 22.56       | 22.54       | 22.54       |                    |          |  |
| 5                    | QPSK            | 1       | 26        | 22.50       | 22.48       | 22.41       | 22.41       | 24                 | 0        |  |
| 5                    | QPSK            | 1       | 49        | 21.52       | 21.49       | 21.46       | 21.46       |                    |          |  |
| 5                    | QPSK            | 12      | 0         | 21.51       | 21.66       | 21.53       | 21.53       |                    |          |  |
| 5                    | QPSK            | 12      | 7         | 21.34       | 21.42       | 21.61       | 21.61       | 23                 | 1        |  |
| 5                    | QPSK            | 12      | 14        | 21.53       | 21.61       | 21.79       | 21.79       |                    |          |  |
| 5                    | QPSK            | 25      | 0         | 21.46       | 21.37       | 21.24       | 21.24       |                    |          |  |
| 5                    | HQAM            | 1       | 0         | 21.55       | 21.71       | 21.69       | 21.69       |                    |          |  |
| 5                    | HQAM            | 1       | 26        | 21.66       | 21.66       | 21.61       | 21.61       | 21                 | 3        |  |
| 5                    | HQAM            | 1       | 49        | 21.66       | 21.66       | 21.61       | 21.61       |                    |          |  |
| 5                    | HQAM            | 1       | 24        | 21.54       | 21.51       | 21.48       | 21.48       |                    |          |  |
| 5                    | HQAM            | 12      | 0         | 20.76       | 20.59       | 20.83       | 20.83       |                    |          |  |
| 5                    | HQAM            | 12      | 7         | 20.71       | 20.71       | 20.67       | 20.67       |                    |          |  |
| 5                    | HQAM            | 12      | 13        | 20.70       | 20.62       | 20.62       | 20.62       |                    |          |  |
| 5                    | HQAM            | 12      | 19        | 20.70       | 20.62       | 20.62       | 20.62       |                    |          |  |
| 5                    | HQAM            | 25      | 0         | 20.40       | 20.58       | 20.59       | 20.59       | 22                 | 2        |  |
| 5                    | HQAM            | 25      | 7         | 20.46       | 20.63       | 20.63       | 20.63       |                    |          |  |
| 5                    | HQAM            | 1       | 12        | 20.40       | 20.60       | 20.60       | 20.60       | 22                 | 2        |  |
| 5                    | HQAM            | 1       | 24        | 20.59       | 20.58       | 20.59       | 20.59       |                    |          |  |
| 5                    | HQAM            | 1       | 49        | 20.52       | 20.52       | 20.52       | 20.52       |                    |          |  |
| 5                    | HQAM            | 12      | 0         | 19.48       | 19.48       | 19.48       | 19.48       | 21                 | 3        |  |
| 5                    | HQAM            | 12      | 13        | 19.51       | 19.64       | 19.38       | 19.38       |                    |          |  |
| 5                    | HQAM            | 12      | 19        | 19.45       | 19.45       | 19.45       | 19.45       |                    |          |  |
| 5                    | HQAM            | 1       | 0         | 17.62       | 17.60       | 17.61       | 17.61       |                    |          |  |
| 5                    | HQAM            | 1       | 12        | 17.63       | 17.74       | 17.52       | 17.52       | 19                 | 5        |  |
| 5                    | HQAM            | 1       | 26        | 17.63       | 17.74       | 17.52       | 17.52       |                    |          |  |
| 5                    | HQAM            | 1       | 49        | 17.73       | 17.79       | 17.61       | 17.61       |                    |          |  |
| 5                    | HQAM            | 25      | 12        | 17.51       | 17.52       | 17.48       | 17.48       | 19                 | 5        |  |
| 5                    | HQAM            | 25      | 24        | 17.68       | 17.68       | 17.61       | 17.61       |                    |          |  |
| 5                    | HQAM            | 25      | 36        | 17.50       | 17.48       | 17.27       | 17.27       |                    |          |  |
| Channel              |                 |         |           | 23060       | 23095       | 23130       | 23165       | Transmitting (dBm) | MFR (dB) |  |
| 3                    | Frequency (MHz) | 1       | 0         | 22.62       | 22.54       | 22.84       | 23.05       |                    |          |  |
| 3                    | QPSK            | 1       | 8         | 22.39       | 22.63       | 22.42       | 22.42       |                    |          |  |
| 3                    | QPSK            | 1       | 14        | 22.37       | 22.63       | 22.68       | 22.68       |                    |          |  |
| 3                    | QPSK            | 3       | 0         | 21.48       | 21.68       | 21.48       | 21.48       | 24                 | 0        |  |
| 3                    | QPSK            | 3       | 8         | 21.29       | 21.39       | 21.67       | 21.67       |                    |          |  |
| 3                    | QPSK            | 3       | 14        | 21.43       | 21.43       | 21.67       | 21.67       |                    |          |  |
| 3                    | QPSK            | 16      | 0         | 21.48       | 21.43       | 21.21       | 21.21       |                    |          |  |
| 3                    | HQAM            | 1       | 0         | 21.56       | 21.69       | 21.68       | 21.68       |                    |          |  |
| 3                    | HQAM            | 1       | 8         | 21.71       | 21.71       | 21.54       | 21.54       | 23                 | 1        |  |
| 3                    | HQAM            | 1       | 14        | 21.64       | 21.60       | 21.54       | 21.54       |                    |          |  |
| 3                    | HQAM            | 3       | 0         | 20.73       | 20.54       | 20.88       | 20.88       |                    |          |  |
| 3                    | HQAM            | 3       | 8         | 20.68       | 20.54       | 20.88       | 20.88       |                    |          |  |
| 3                    | HQAM            | 3       | 14        | 20.63       | 20.71       | 20.93       | 20.93       |                    |          |  |
| 3                    | HQAM            | 16      | 0         | 20.40       | 20.58       | 20.45       | 20.45       |                    |          |  |
| 3                    | HQAM            | 16      | 8         | 20.46       | 20.59       | 20.45       | 20.45       |                    |          |  |
| 3                    | HQAM            | 1       | 8         | 20.51       | 20.55       | 20.93       | 20.93       | 22                 | 2        |  |
| 3                    | HQAM            | 1       | 14        | 20.45       | 20.44       | 20.58       | 20.58       |                    |          |  |
| 3                    | HQAM            | 3       | 0         | 19.52       | 19.46       | 19.68       | 19.68       | 21                 | 3        |  |
| 3                    | HQAM            | 3       | 8         | 19.46       | 19.45       | 19.32       | 19.32       |                    |          |  |
| 3                    | HQAM            | 3       | 7         | 19.55       | 19.52       | 19.29       | 19.29       |                    |          |  |
| 3                    | HQAM            | 16      | 0         | 19.36       | 19.36       | 19.29       | 19.29       |                    |          |  |
| 3                    | HQAM            | 1       | 0         | 17.65       | 17.66       | 17.49       | 17.49       |                    |          |  |
| 3                    | HQAM            | 1       | 8         | 17.63       | 17.63       | 17.54       | 17.54       | 19                 | 5        |  |
| 3                    | HQAM            | 1       | 14        | 17.76       | 17.76       | 17.61       | 17.61       |                    |          |  |
| 3                    | HQAM            | 3       | 0         | 17.45       | 17.53       | 17.60       | 17.60       |                    |          |  |
| 3                    | HQAM            | 3       | 8         | 17.56       | 17.68       | 17.47       | 17.47       | 19                 | 5        |  |
| 3                    | HQAM            | 16      | 0         | 17.51       | 17.37       | 17.38       | 17.38       |                    |          |  |
| Channel              |                 |         |           | 23060       | 23095       | 23130       | 23165       | Transmitting (dBm) | MFR (dB) |  |
| 1.4                  | Frequency (MHz) | 1       | 0         | 20.94       | 20.49       | 22.44       | 22.44       |                    |          |  |
| 1.4                  | QPSK            | 1       | 3         | 20.39       | 20.48       | 22.53       | 22.53       |                    |          |  |
| 1.4                  | QPSK            | 1       | 5         | 20.39       | 20.52       | 22.49       | 22.49       | 24                 | 0        |  |
| 1.4                  | QPSK            | 3       | 0         | 20.35       | 20.43       | 22.43       | 22.43       |                    |          |  |
| 1.4                  | QPSK            | 3       | 3         | 20.36       | 20.39       | 22.37       | 22.37       |                    |          |  |
| 1.4                  | QPSK            | 3       | 5         | 20.34       | 20.42       | 22.49       | 22.49       |                    |          |  |
| 1.4                  | QPSK            | 16      | 0         | 20.35       | 20.70       | 21.70       | 21.70       | 23                 | 1        |  |
| 1.4                  | HQAM            | 1       | 0         | 21.44       | 21.71       | 21.60       | 21.60       |                    |          |  |
| 1.4                  | HQAM            | 1       | 3         | 21.37       | 21.59       | 21.33       | 21.33       |                    |          |  |
| 1.4                  | HQAM            | 1       | 5         | 21.29       | 21.53       | 21.33       | 21.33       |                    |          |  |
| 1.4                  | HQAM            | 3       | 0         | 21.41       | 21.62       | 21.40       | 21.40       |                    |          |  |
| 1.4                  | HQAM            | 3       | 3         | 21.30       | 21.54       | 21.21       | 21.21       |                    |          |  |
| 1.4                  | HQAM            | 3       | 5         | 21.44       | 21.47       | 21.38       | 21.38       |                    |          |  |
| 1.4                  | HQAM            | 16      | 0         | 20.45       | 20.42       | 20.34       | 20.34       | 22                 | 2        |  |
| 1.4                  | HQAM            | 16      | 3         | 20.45       | 20.79       | 20.25       | 20.25       |                    |          |  |
| 1.4                  | HQAM            | 1       | 0         | 19.82       | 19.82       | 19.48       | 19.48       | 22                 | 2        |  |
| 1.4                  | HQAM            | 1       | 3         | 19.82       | 20.66       | 20.25       | 20.25       |                    |          |  |
| 1.4                  | HQAM            | 1       | 5         | 20.70       | 20.48       | 20.25       | 20.25       |                    |          |  |
| 1.4                  | HQAM            | 3       | 0         | 19.86       | 20.44       | 20.45       | 20.45       | 21                 | 3        |  |
| 1.4                  | HQAM            | 3       | 3         | 19.86       | 20.44       | 20.45       | 20.45       |                    |          |  |
| 1.4                  | HQAM            | 16      | 0         | 17.45       | 17.46       | 17.58       | 17.58       |                    |          |  |
| 1.4                  | HQAM            | 16      | 3         | 17.45       | 17.46       | 17.58       | 17.58       |                    |          |  |
| 1.4                  | HQAM            | 3       | 0         | 17.27       | 17.50       | 17.30       | 17.30       | 19                 | 5        |  |
| 1.4                  | HQAM            | 3       | 3         | 17.42       | 17.42       | 17.29       | 17.29       |                    |          |  |
| 1.4                  | HQAM            | 3       | 5         | 17.28       | 17.44       | 17.43       | 17.43       |                    |          |  |
| 1.4                  | HQAM            | 16      | 0         | 17.15       | 17.28       | 17.31       | 17.31       |                    |          |  |
| 1.4                  | HQAM            | 16      | 3         | 17.17       | 17.17       | 17.28       | 17.28       |                    |          |  |
| 1.4                  | HQAM            | 6       | 0         | 17.44       | 17.21       | 17.25       | 17.25       | 19                 | 5        |  |

| Band 13 Ant0 Default |            |         |           |                      |                      |                      |                 |             |   |
|----------------------|------------|---------|-----------|----------------------|----------------------|----------------------|-----------------|-------------|---|
| RF MHz               | Modulation | RB Size | RB Offset | Power/<br>CRF /Fires | Power/<br>CRF /Fires | Power/<br>CRF /Fires | Turn-up<br>(dB) | MFR<br>(dB) |   |
| Channel 23000        |            |         |           |                      |                      |                      |                 |             |   |
| 10                   | Frequency  | 1       | 0         |                      | 22.38                |                      |                 |             |   |
| 10                   | OPSR       | 1       | 26        |                      | 22.34                |                      | 24              | 0           |   |
| 10                   | OPSR       | 1       | 26        |                      | 22.30                |                      |                 |             |   |
| 10                   | OPSR       | 25      | 0         |                      | 21.94                |                      |                 |             |   |
| 10                   | OPSR       | 26      | 12        |                      | 21.48                |                      |                 |             |   |
| 10                   | ISQAM      | 1       | 0         |                      | 21.41                |                      | 23              | 1           |   |
| 10                   | OPSR       | 50      | 0         |                      | 21.38                |                      |                 |             |   |
| 10                   | ISQAM      | 1       | 0         |                      | 21.78                |                      |                 |             |   |
| 10                   | ISQAM      | 1       | 26        |                      | 21.66                |                      | 23              | 1           |   |
| 10                   | ISQAM      | 1       | 40        |                      | 21.59                |                      |                 |             |   |
| 10                   | ISQAM      | 25      | 0         |                      | 20.67                |                      |                 |             |   |
| 10                   | ISQAM      | 26      | 12        |                      | 20.68                |                      | 22              | 2           |   |
| 10                   | ISQAM      | 25      | 0         |                      | 20.45                |                      |                 |             |   |
| 10                   | ISQAM      | 50      | 0         |                      | 20.38                |                      |                 |             |   |
| 10                   | ISQAM      | 50      | 0         |                      | 20.68                |                      |                 |             |   |
| 10                   | ISQAM      | 1       | 26        |                      | 20.02                |                      | 22              | 2           |   |
| 10                   | ISQAM      | 1       | 40        |                      | 20.07                |                      |                 |             |   |
| 10                   | ISQAM      | 1       | 52        |                      | 19.92                |                      |                 |             |   |
| 10                   | ISQAM      | 25      | 12        |                      | 19.54                |                      |                 |             |   |
| 10                   | ISQAM      | 25      | 26        |                      | 19.63                |                      |                 |             |   |
| 10                   | ISQAM      | 25      | 0         |                      | 18.81                |                      |                 |             |   |
| 10                   | 250KAM     | 1       | 0         |                      | 17.55                |                      |                 |             |   |
| 10                   | 250KAM     | 1       | 26        |                      | 17.49                |                      | 19              | 5           |   |
| 10                   | 250KAM     | 25      | 0         |                      | 17.46                |                      |                 |             |   |
| 10                   | 250KAM     | 26      | 12        |                      | 17.45                |                      |                 |             |   |
| 10                   | 250KAM     | 25      | 12        |                      | 17.43                |                      | 19              | 5           |   |
| 10                   | 250KAM     | 25      | 0         |                      | 17.38                |                      |                 |             |   |
| 10                   | 250KAM     | 50      | 0         |                      | 17.41                |                      |                 |             |   |
| Channel 23005        |            |         |           |                      |                      |                      |                 |             |   |
| Frequency            |            |         |           | 23005                | 23005                | 23005                | Turn-up<br>(dB) | MFR<br>(dB) |   |
| 5                    | OPSR       | 1       | 0         |                      | 22.24                | 22.20                | 22.25           |             |   |
| 5                    | OPSR       | 1       | 12        |                      | 22.22                | 22.26                | 22.09           |             |   |
| 5                    | OPSR       | 1       | 24        |                      | 22.08                | 22.19                | 22.02           | 24          | 0 |
| 5                    | OPSR       | 1       | 36        |                      | 21.28                | 21.48                | 21.38           |             |   |
| 5                    | OPSR       | 12      | 7         |                      | 21.30                | 21.41                | 21.28           |             |   |
| 5                    | OPSR       | 12      | 19        |                      | 21.26                | 21.37                | 21.23           | 23          | 1 |
| 5                    | OPSR       | 12      | 31        |                      | 21.13                | 21.20                | 21.14           |             |   |
| 5                    | ISQAM      | 1       | 0         |                      | 21.67                | 21.72                | 21.68           |             |   |
| 5                    | ISQAM      | 1       | 12        |                      | 21.36                | 21.49                | 21.58           | 23          | 1 |
| 5                    | ISQAM      | 1       | 24        |                      | 21.28                | 21.41                | 21.24           |             |   |
| 5                    | ISQAM      | 12      | 0         |                      | 20.44                | 20.51                | 20.49           |             |   |
| 5                    | ISQAM      | 12      | 12        |                      | 20.31                | 20.36                | 20.18           | 22          | 2 |
| 5                    | ISQAM      | 12      | 24        |                      | 20.20                | 20.38                | 20.20           |             |   |
| 5                    | ISQAM      | 25      | 0         |                      | 20.16                | 20.24                | 20.19           |             |   |
| 5                    | ISQAM      | 25      | 12        |                      | 20.20                | 20.31                | 20.17           |             |   |
| 5                    | ISQAM      | 1       | 12        |                      | 20.44                | 20.41                | 20.37           | 22          | 2 |
| 5                    | ISQAM      | 1       | 24        |                      | 20.39                | 20.48                | 20.43           |             |   |
| 5                    | ISQAM      | 12      | 0         |                      | 19.48                | 19.53                | 19.30           |             |   |
| 5                    | ISQAM      | 12      | 12        |                      | 19.40                | 19.51                | 19.35           |             |   |
| 5                    | ISQAM      | 12      | 12        |                      | 19.22                | 19.38                | 19.26           | 21          | 3 |
| 5                    | ISQAM      | 25      | 0         |                      | 19.22                | 19.35                | 19.19           |             |   |
| 5                    | ISQAM      | 25      | 12        |                      | 19.28                | 19.44                | 19.20           |             |   |
| 5                    | 250KAM     | 1       | 12        |                      | 17.16                | 17.32                | 17.22           | 19          | 5 |
| 5                    | 250KAM     | 1       | 24        |                      | 17.25                | 17.42                | 17.38           |             |   |
| 5                    | 250KAM     | 12      | 0         |                      | 17.24                | 17.38                | 17.15           |             |   |
| 5                    | 250KAM     | 12      | 7         |                      | 17.21                | 17.32                | 17.21           |             |   |
| 5                    | 250KAM     | 12      | 19        |                      | 17.17                | 17.21                | 17.09           | 19          | 5 |
| 5                    | 250KAM     | 25      | 0         |                      | 17.31                | 17.37                | 17.24           |             |   |

| Band 17 Ant0 Default |                 |          |            |             |         |             |         |               |          |
|----------------------|-----------------|----------|------------|-------------|---------|-------------|---------|---------------|----------|
| BW (MHz)             | Modulation      | PRB Size | PRB Offset | Power (dBm) |         | Power (dBm) |         | Turn-on (dBm) | MFR (dB) |
|                      |                 |          |            | Channel     | Per PRB | Channel     | Per PRB |               |          |
| Channel              |                 |          |            |             |         |             |         |               |          |
| 5                    | Frequency (MHz) | 7.13     |            |             | 23.75   | 23.75       | 23.75   |               |          |
| 10                   | SPSR            | 1        | 0          | 22.82       | 22.05   | 22.05       |         |               |          |
| 10                   | SPSR            | 1        | 28         | 22.58       | 22.57   | 22.41       |         | 24            | 0        |
| 10                   | SPSR            | 1        | 56         | 22.58       | 22.57   | 22.41       |         | 24            | 0        |
| 10                   | SPSR            | 25       | 0          | 21.57       | 21.54   | 21.53       |         |               |          |
| 10                   | SPSR            | 25       | 12         | 21.56       | 21.43   | 21.50       |         |               |          |
| 10                   | SPSR            | 25       | 24         | 21.47       | 21.45   | 21.50       |         | 23            | 1        |
| 10                   | SPSR            | 56       | 0          | 21.48       | 21.54   | 21.41       |         |               |          |
| 10                   | ISDM            | 1        | 0          | 21.58       | 21.76   | 21.54       |         |               |          |
| 10                   | ISDM            | 1        | 28         | 21.58       | 21.76   | 21.54       |         | 23            | 1        |
| 10                   | ISDM            | 1        | 40         | 21.41       | 21.05   | 21.42       |         |               |          |
| 10                   | ISDM            | 25       | 0          | 20.57       | 20.46   | 20.58       |         |               |          |
| 10                   | ISDM            | 25       | 12         | 20.51       | 20.00   | 20.58       |         |               |          |
| 10                   | ISDM            | 25       | 24         | 20.45       | 20.00   | 20.45       |         | 22            | 2        |
| 10                   | ISDM            | 56       | 0          | 20.42       | 20.41   | 20.39       |         |               |          |
| 10                   | ISDM            | 56       | 28         | 20.37       | 20.71   | 20.39       |         |               |          |
| 10                   | ISDM            | 1        | 28         | 20.52       | 20.70   | 20.25       |         |               |          |
| 10                   | ISDM            | 1        | 48         | 20.56       | 20.83   | 20.61       |         |               |          |
| 10                   | ISDM            | 1        | 68         | 20.58       | 20.88   | 20.75       |         |               |          |
| 10                   | ISDM            | 25       | 12         | 19.82       | 19.83   | 19.71       |         |               |          |
| 10                   | ISDM            | 25       | 24         | 19.61       | 19.81   | 19.64       |         |               |          |
| 10                   | ISDM            | 25       | 40         | 19.76       | 19.69   | 19.69       |         | 19            | 5        |
| 10                   | ISDM            | 1        | 0          | 17.61       | 17.71   | 17.71       |         |               |          |
| 10                   | ISDM            | 1        | 28         | 17.64       | 17.60   | 17.37       |         |               |          |
| 10                   | ISDM            | 1        | 40         | 17.47       | 17.60   | 17.37       |         | 19            | 5        |
| 10                   | ISDM            | 25       | 0          | 17.54       | 17.67   | 17.47       |         |               |          |
| 10                   | ISDM            | 25       | 12         | 17.54       | 17.69   | 17.33       |         |               |          |
| 10                   | ISDM            | 25       | 24         | 17.51       | 17.69   | 17.28       |         | 19            | 5        |
| 10                   | ISDM            | 56       | 0          | 17.31       | 17.42   | 17.10       |         |               |          |
| Channel              |                 |          |            |             |         |             |         |               |          |
| 5                    | Frequency (MHz) | 7.13     |            |             | 23.75   | 23.75       | 23.75   |               |          |
| 5                    | SPSR            | 1        | 0          | 22.47       | 22.03   | 22.04       |         |               |          |
| 5                    | SPSR            | 1        | 12         | 22.56       | 22.41   | 22.37       |         | 24            | 0        |
| 5                    | SPSR            | 1        | 24         | 22.57       | 22.33   | 22.30       |         |               |          |
| 5                    | SPSR            | 12       | 0          | 21.54       | 21.47   | 21.53       |         |               |          |
| 5                    | SPSR            | 12       | 12         | 21.51       | 21.42   | 21.40       |         | 23            | 1        |
| 5                    | SPSR            | 12       | 24         | 21.39       | 21.28   | 21.41       |         |               |          |
| 5                    | SPSR            | 25       | 0          | 21.39       | 21.45   | 21.39       |         |               |          |
| 5                    | ISDM            | 1        | 0          | 21.53       | 21.68   | 21.50       |         |               |          |
| 5                    | ISDM            | 1        | 12         | 21.31       | 21.57   | 21.23       |         | 23            | 1        |
| 5                    | ISDM            | 1        | 24         | 21.39       | 21.52   | 21.30       |         |               |          |
| 5                    | ISDM            | 12       | 0          | 20.39       | 20.46   | 20.48       |         |               |          |
| 5                    | ISDM            | 12       | 12         | 20.42       | 20.58   | 20.44       |         | 22            | 2        |
| 5                    | ISDM            | 12       | 24         | 20.41       | 20.48   | 20.41       |         |               |          |
| 5                    | ISDM            | 25       | 0          | 20.32       | 20.36   | 20.33       |         |               |          |
| 5                    | ISDM            | 25       | 12         | 20.35       | 20.42   | 20.33       |         |               |          |
| 5                    | ISDM            | 1        | 12         | 20.54       | 20.64   | 20.20       |         | 22            | 2        |
| 5                    | ISDM            | 1        | 24         | 20.53       | 20.77   | 20.58       |         |               |          |
| 5                    | ISDM            | 12       | 0          | 19.66       | 19.76   | 19.66       |         |               |          |
| 5                    | ISDM            | 12       | 12         | 19.53       | 19.62   | 19.57       |         |               |          |
| 5                    | ISDM            | 12       | 18         | 19.43       | 19.71   | 19.50       |         | 21            | 3        |
| 5                    | ISDM            | 25       | 0          | 19.44       | 19.63   | 19.48       |         |               |          |
| 5                    | ISDM            | 25       | 12         | 19.41       | 1.99    | 1.98        |         |               |          |
| 5                    | ISDM            | 1        | 12         | 17.57       | 17.47   | 17.32       |         |               |          |
| 5                    | ISDM            | 12       | 18         | 17.47       | 17.44   | 17.29       |         |               |          |
| 5                    | ISDM            | 12       | 17         | 17.42       | 17.42   | 17.21       |         | 19            | 5        |
| 5                    | ISDM            | 12       | 7          | 17.46       | 17.57   | 17.31       |         | 19            | 5        |
| 5                    | ISDM            | 12       | 13         | 17.41       | 17.31   | 17.59       |         |               |          |
| 5                    | ISDM            | 12       | 14         | 17.41       | 17.38   | 17.51       |         |               |          |

| Band 25 Ant0 Default |            |         |           |                           |                           |                            |                         |             |    |   |  |  |  |
|----------------------|------------|---------|-----------|---------------------------|---------------------------|----------------------------|-------------------------|-------------|----|---|--|--|--|
| BW (MHz)             | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch./Freq. | Power<br>Med<br>Ch./Freq. | Power<br>High<br>Ch./Freq. | Turn-up<br>Int.<br>(dB) | MPE<br>(dB) |    |   |  |  |  |
| Channel              |            |         |           |                           |                           |                            |                         |             |    |   |  |  |  |
| Frequency (MHz)      |            |         |           |                           |                           |                            |                         |             |    |   |  |  |  |
| 20                   | QPSK       | 1       | 0         | 22.25                     | 22.32                     | 22.26                      |                         |             | 24 | 0 |  |  |  |
| 20                   | QPSK       | 1       | 49        | 22.14                     | 22.24                     | 22.12                      |                         |             |    |   |  |  |  |
| 20                   | QPSK       | 1       | 99        | 22.23                     | 22.16                     | 22.23                      |                         |             | 23 | 1 |  |  |  |
| 20                   | QPSK       | 50      | 0         | 21.39                     | 21.41                     | 21.26                      |                         |             |    |   |  |  |  |
| 20                   | QPSK       | 50      | 24        | 21.33                     | 21.29                     | 21.24                      |                         |             | 23 | 1 |  |  |  |
| 20                   | QPSK       | 50      | 50        | 21.24                     | 21.24                     | 21.10                      |                         |             |    |   |  |  |  |
| 20                   | QPSK       | 100     | 0         | 21.55                     | 21.52                     | 21.51                      |                         |             | 23 | 1 |  |  |  |
| 20                   | 16QAM      | 50      | 0         | 21.48                     | 21.58                     | 21.49                      |                         |             |    |   |  |  |  |
| 20                   | 16QAM      | 1       | 49        | 21.37                     | 21.45                     | 21.34                      |                         |             | 22 | 2 |  |  |  |
| 20                   | 16QAM      | 1       | 99        | 21.40                     | 21.53                     | 21.51                      |                         |             |    |   |  |  |  |
| 20                   | 16QAM      | 50      | 0         | 20.32                     | 20.33                     | 20.28                      |                         |             | 21 | 3 |  |  |  |
| 20                   | 16QAM      | 50      | 24        | 20.22                     | 20.29                     | 20.14                      |                         |             |    |   |  |  |  |
| 20                   | 16QAM      | 50      | 50        | 20.19                     | 20.20                     | 20.25                      |                         |             | 19 | 5 |  |  |  |
| 20                   | 16QAM      | 100     | 0         | 20.15                     | 20.21                     | 20.19                      |                         |             |    |   |  |  |  |
| 20                   | 64QAM      | 1       | 0         | 20.29                     | 20.32                     | 20.25                      |                         |             | 22 | 2 |  |  |  |
| 20                   | 64QAM      | 1       | 49        | 20.11                     | 20.16                     | 20.22                      |                         |             |    |   |  |  |  |
| 20                   | 64QAM      | 50      | 0         | 19.31                     | 19.33                     | 19.25                      |                         |             | 21 | 3 |  |  |  |
| 20                   | 64QAM      | 50      | 24        | 19.28                     | 19.27                     | 19.13                      |                         |             |    |   |  |  |  |
| 20                   | 64QAM      | 50      | 50        | 19.25                     | 19.23                     | 19.21                      |                         |             | 19 | 5 |  |  |  |
| 20                   | 64QAM      | 100     | 0         | 19.21                     | 19.28                     | 19.15                      |                         |             |    |   |  |  |  |
| 20                   | 256QAM     | 1       | 49        | 17.39                     | 17.36                     | 17.29                      |                         |             | 22 | 2 |  |  |  |
| 20                   | 256QAM     | 1       | 49        | 17.13                     | 17.25                     | 17.13                      |                         |             |    |   |  |  |  |
| 20                   | 256QAM     | 1       | 99        | 17.23                     | 17.18                     | 17.23                      |                         |             | 19 | 5 |  |  |  |
| 20                   | 256QAM     | 50      | 24        | 17.26                     | 17.20                     | 17.23                      |                         |             |    |   |  |  |  |
| 20                   | 256QAM     | 50      | 24        | 17.12                     | 17.20                     | 17.13                      |                         |             | 22 | 2 |  |  |  |
| 20                   | 256QAM     | 50      | 50        | 17.25                     | 17.15                     | 17.21                      |                         |             |    |   |  |  |  |
| 20                   | 256QAM     | 100     | 0         | 17.16                     | 17.16                     | 17.16                      |                         |             |    |   |  |  |  |
| Channel              |            |         |           |                           |                           |                            |                         |             |    |   |  |  |  |
| Frequency (MHz)      |            |         |           |                           |                           |                            |                         |             |    |   |  |  |  |
| 15                   | QPSK       | 1       | 0         | 18.07                     | 18.00                     | 18.00                      |                         |             | 24 | 0 |  |  |  |
| 15                   | QPSK       | 1       | 49        | 22.16                     | 22.21                     | 22.19                      |                         |             |    |   |  |  |  |
| 15                   | QPSK       | 1       | 74        | 22.09                     | 22.10                     | 22.18                      |                         |             | 23 | 1 |  |  |  |
| 15                   | QPSK       | 36      | 0         | 21.32                     | 21.34                     | 21.17                      |                         |             |    |   |  |  |  |
| 15                   | QPSK       | 36      | 20        | 21.27                     | 21.14                     | 21.12                      |                         |             | 23 | 1 |  |  |  |
| 15                   | QPSK       | 36      | 36        | 21.14                     | 21.11                     | 21.15                      |                         |             |    |   |  |  |  |
| 15                   | QPSK       | 75      | 0         | 21.49                     | 21.55                     | 21.46                      |                         |             | 23 | 1 |  |  |  |
| 15                   | 16QAM      | 1       | 49        | 21.38                     | 21.43                     | 21.42                      |                         |             |    |   |  |  |  |
| 15                   | 16QAM      | 1       | 37        | 21.28                     | 21.34                     | 21.29                      |                         |             | 22 | 2 |  |  |  |
| 15                   | 16QAM      | 36      | 0         | 20.19                     | 20.26                     | 20.13                      |                         |             |    |   |  |  |  |
| 15                   | 16QAM      | 36      | 20        | 20.13                     | 20.20                     | 20.04                      |                         |             | 22 | 2 |  |  |  |
| 15                   | 16QAM      | 36      | 36        | 20.07                     | 20.13                     | 20.10                      |                         |             |    |   |  |  |  |
| 15                   | 16QAM      | 75      | 0         | 20.19                     | 20.14                     | 20.14                      |                         |             | 21 | 3 |  |  |  |
| 15                   | 16QAM      | 75      | 20        | 20.13                     | 20.20                     | 20.04                      |                         |             |    |   |  |  |  |
| 15                   | 64QAM      | 1       | 0         | 20.21                     | 20.22                     | 20.15                      |                         |             | 22 | 2 |  |  |  |
| 15                   | 64QAM      | 1       | 39        | 20.06                     | 20.04                     | 20.05                      |                         |             |    |   |  |  |  |
| 15                   | 64QAM      | 36      | 0         | 19.20                     | 19.21                     | 19.13                      |                         |             | 21 | 3 |  |  |  |
| 15                   | 64QAM      | 36      | 20        | 19.23                     | 19.26                     | 19.15                      |                         |             |    |   |  |  |  |
| 15                   | 64QAM      | 36      | 36        | 19.12                     | 19.13                     | 19.05                      |                         |             | 19 | 5 |  |  |  |
| 15                   | 64QAM      | 75      | 0         | 19.12                     | 19.17                     | 19.02                      |                         |             |    |   |  |  |  |
| 15                   | 256QAM     | 1       | 37        | 17.07                     | 17.12                     | 17.07                      |                         |             | 22 | 2 |  |  |  |
| 15                   | 256QAM     | 1       | 74        | 17.14                     | 17.17                     | 17.17                      |                         |             |    |   |  |  |  |
| 15                   | 256QAM     | 50      | 24        | 17.26                     | 17.20                     | 17.23                      |                         |             | 19 | 5 |  |  |  |
| 15                   | 256QAM     | 50      | 24        | 17.12                     | 17.20                     | 17.13                      |                         |             |    |   |  |  |  |
| 15                   | 256QAM     | 50      | 50        | 17.25                     | 17.08                     | 17.25                      |                         |             | 19 | 5 |  |  |  |
| 15                   | 256QAM     | 100     | 0         | 17.17                     | 17.04                     | 17.13                      |                         |             |    |   |  |  |  |
| 15                   | 256QAM     | 100     | 0         | 17.11                     | 17.08                     | 17.11                      |                         |             |    |   |  |  |  |
| Channel              |            |         |           |                           |                           |                            |                         |             |    |   |  |  |  |
| Frequency (MHz)      |            |         |           |                           |                           |                            |                         |             |    |   |  |  |  |
| 10                   | QPSK       | 1       | 0         | 22.18                     | 22.20                     | 22.18                      |                         |             | 24 | 0 |  |  |  |
| 10                   | QPSK       | 1       | 25        | 22.08                     | 22.14                     | 22.02                      |                         |             |    |   |  |  |  |
| 10                   | QPSK       | 1       | 49        | 22.11                     | 22.10                     | 22.15                      |                         |             | 23 | 1 |  |  |  |
| 10                   | QPSK       | 1       | 74        | 22.09                     | 22.10                     | 22.18                      |                         |             |    |   |  |  |  |
| 10                   | QPSK       | 25      | 0         | 21.39                     | 21.38                     | 21.25                      |                         |             | 23 | 1 |  |  |  |
| 10                   | QPSK       | 25      | 12        | 21.24                     | 21.15                     | 21.14                      |                         |             |    |   |  |  |  |
| 10                   | QPSK       | 25      | 25        | 21.19                     | 21.16                     | 21.08                      |                         |             | 23 | 1 |  |  |  |
| 10                   | QPSK       | 36      | 0         | 21.48                     | 21.51                     | 21.45                      |                         |             |    |   |  |  |  |
| 10                   | 16QAM      | 1       | 0         | 21.39                     | 21.51                     | 21.40                      |                         |             | 23 | 1 |  |  |  |
| 10                   | 16QAM      | 1       | 25        | 21.31                     | 21.32                     | 21.25                      |                         |             |    |   |  |  |  |
| 10                   | 16QAM      | 25      | 0         | 20.24                     | 20.26                     | 20.14                      |                         |             | 22 | 2 |  |  |  |
| 10                   | 16QAM      | 25      | 12        | 20.15                     | 20.24                     | 20.01                      |                         |             |    |   |  |  |  |
| 10                   | 16QAM      | 25      | 12        | 20.12                     | 20.14                     | 20.13                      |                         |             | 21 | 3 |  |  |  |
| 10                   | 16QAM      | 50      | 0         | 20.08                     | 20.08                     | 20.07                      |                         |             |    |   |  |  |  |
| 10                   | 16QAM      | 1       | 0         | 20.21                     | 20.18                     | 20.11                      |                         |             | 22 | 2 |  |  |  |
| 10                   | 16QAM      | 1       | 24        | 20.16                     | 20.16                     | 20.16                      |                         |             |    |   |  |  |  |
| 10                   | 16QAM      | 1       | 49        | 20.10                     | 20.14                     | 20.11                      |                         |             | 21 | 3 |  |  |  |
| 10                   | 16QAM      | 25      | 0         | 19.16                     | 19.24                     | 19.13                      |                         |             |    |   |  |  |  |
| 10                   | 16QAM      | 25      | 12        | 19.10                     | 19.13                     | 19.08                      |                         |             | 21 | 3 |  |  |  |
| 10                   | 16QAM      | 50      | 0         | 19.08                     | 19.10                     | 19.08                      |                         |             |    |   |  |  |  |
| 10                   | 64QAM      | 1       | 0         | 17.01                     | 17.02                     | 17.01                      |                         |             | 22 | 2 |  |  |  |
| 10                   | 64QAM      | 50      | 0         | 19.19                     | 19.12                     | 19.09                      |                         |             |    |   |  |  |  |
| 10                   | 256QAM     | 1       | 25        | 17.06                     | 17.14                     | 17.06                      |                         |             | 19 | 5 |  |  |  |
| 10                   | 256QAM     | 1       | 49        | 17.13                     | 17.05                     | 17.06                      |                         |             |    |   |  |  |  |
| 10                   | 256QAM     | 25      | 12        | 17.11                     | 17.05                     | 17.06                      |                         |             |    |   |  |  |  |
| 10                   | 256QAM     | 25      | 25        | 17.13                     | 17.09                     | 17.14                      |                         |             |    |   |  |  |  |
| 10                   | 256QAM     | 50      | 0         | 17.03                     | 17.13                     | 17.07                      |                         |             |    |   |  |  |  |
| 10                   | 256QAM     | 50      | 25        | 17.13                     | 17.13                     | 17.07                      |                         |             |    |   |  |  |  |
| Channel              |            |         |           |                           |                           |                            |                         |             |    |   |  |  |  |
| Frequency (MHz)      |            |         |           |                           |                           |                            |                         |             |    |   |  |  |  |
| 5                    | QPSK       | 1       | 0         | 22.18                     | 22.18                     | 22.18                      |                         |             | 24 | 0 |  |  |  |
| 5                    | QPSK       | 1       | 12        | 22.03                     | 22.16                     | 22.03                      |                         |             |    |   |  |  |  |
| 5                    | QPSK       | 1       | 24        | 22.15                     | 22.10                     | 22.15                      |                         |             | 23 | 1 |  |  |  |
| 5                    | QPSK       | 12      | 0         | 21.30                     | 21.28                     | 21.25                      |                         |             |    |   |  |  |  |
| 5                    | QPSK       | 12      | 7         | 21.21                     | 21.19                     | 21.17                      |                         |             | 23 | 1 |  |  |  |
| 5                    | QPSK       | 12      | 13        | 21.13                     | 21.12                     | 21.05                      |                         |             |    |   |  |  |  |
| 5                    | QPSK       | 36      | 0         | 21.41                     | 21.51                     | 21.45                      |                         |             | 23 | 1 |  |  |  |
| 5                    | 16QAM      | 1       | 0         | 21.41                     | 21.46                     | 21.43                      |                         |             |    |   |  |  |  |
| 5                    | 16QAM      | 1       | 12        | 21.31                     | 21.30                     | 21.24                      |                         |             | 23 | 1 |  |  |  |
| 5                    | 16QAM      | 1       | 24        | 21.33                     | 21.44                     | 21.27                      |                         |             |    |   |  |  |  |
| 5                    | 16QAM      | 12      | 0         | 20.22                     | 20.26                     | 20.22                      |                         |             | 22 | 2 |  |  |  |
| 5                    | 16QAM      | 12      | 7         | 20.10                     | 20.19                     | 20.08                      |                         |             |    |   |  |  |  |
| 5                    | 16QAM      | 12      | 13        | 20.08                     | 20.10                     | 20.02                      |                         |             | 22 | 2 |  |  |  |
| 5                    | 16QAM      | 25      | 0         | 20.01                     | 20.16                     | 20.11                      |                         |             |    |   |  |  |  |
| 5                    | 16QAM      | 1       | 0         | 20.21                     | 20.23                     | 20.12                      |                         |             | 22 | 2 |  |  |  |
| 5                    | 16QAM      | 1       | 12        | 20.01                     | 20.08                     | 20.10                      |                         |             |    |   |  |  |  |
| 5                    | 16QAM      | 1       | 24        | 20.08                     | 20.15                     | 20.04                      |                         |             | 21 | 3 |  |  |  |
| 5                    | 16QAM      | 12      | 0         | 19.21                     | 19.19                     | 19.14                      |                         |             |    |   |  |  |  |
| 5                    | 16QAM      | 12      | 7         | 19.16                     | 19.14                     | 19.09                      |                         |             | 19 | 5 |  |  |  |
| 5                    | 16QAM      | 12      | 13        | 19.15                     | 19.16                     | 19.07                      |                         |             |    |   |  |  |  |
| 5                    | 16QAM      | 25      | 0         | 19.13                     | 19.22                     | 19.06                      |                         |             | 22 | 2 |  |  |  |
| 5                    | 16QAM      | 25      | 0         | 17.11                     | 17.24                     | 17.22                      |                         |             |    |   |  |  |  |
| 5                    | 256QAM     | 1       | 12        | 17.01                     | 17.19                     | 17.06                      |                         |             | 19 | 5 |  |  |  |
| 5                    | 256QAM     | 1       | 24        | 17.10                     | 17.10                     | 17.14                      |                         |             |    |   |  |  |  |
| 5                    | 256QAM     | 12      | 0         | 17.17                     | 17.22                     | 17.24                      |                         |             | 19 | 5 |  |  |  |
| 5                    | 256QAM     | 12      | 7         | 17.04                     | 17.15                     | 17.01                      |                         |             |    |   |  |  |  |
| 5                    | 256QAM     | 12      | 13        | 17.14                     | 17.08                     | 17.13                      |                         |             |    |   |  |  |  |
| 5                    | 256QAM     | 25      | 0         | 17.19                     | 17.08                     | 17.06                      |                         |             |    |   |  |  |  |
| 5                    | 256QAM     | 25      | 0         | 17.19                     | 17.08                     | 17.06                      |                         |             |    |   |  |  |  |
| 5                    | 256QAM     | 50      | 0         | 17.19                     | 17.08                     | 17.06                      |                         |             |    |   |  |  |  |
| Channel              |            |         |           |                           |                           |                            |                         |             |    |   |  |  |  |
| Frequency (MHz)      |            |         |           |                           |                           |                            |                         |             |    |   |  |  |  |
| 3                    | QPSK       | 1       | 0         | 22.16                     | 22.27                     | 22.15                      |                         |             | 24 | 0 |  |  |  |
| 3                    | QPSK       | 1       | 8         | 22.07                     | 22.19                     | 22.02                      |                         |             |    |   |  |  |  |
| 3                    | QPSK       | 1       | 14        | 22.08                     | 22.01                     | 22.17                      |                         |             | 23 | 1 |  |  |  |
| 3                    | QPSK       | 8       | 0         | 21.27                     | 21.30                     | 21.25                      |                         |             |    |   |  |  |  |
| 3                    | QPSK       | 8       | 4         | 21.21                     | 21.14                     | 21.14                      |                         |             | 23 | 1 |  |  |  |
| 3                    | QPSK       | 8       | 7         | 21.17                     | 21.10                     | 21.03                      |                         |             |    |   |  |  |  |
| 3                    | QPSK       | 16      | 0         | 21.41                     | 21.49                     | 21.41                      |                         |             | 23 | 1 |  |  |  |
| 3                    | 16QAM      | 1       | 0         | 21.37                     | 21.45                     | 21.43                      |                         |             |    |   |  |  |  |
| 3                    | 16QAM      | 1       | 8         | 21.31                     | 21.32                     | 21.26                      |                         |             | 22 | 2 |  |  |  |
| 3                    | 16QAM      | 1       | 14        | 21.09                     | 21.38                     | 21.35                      |                         |             |    |   |  |  |  |
| 3                    | 16QAM      | 8       | 0         | 2                         |                           |                            |                         |             |    |   |  |  |  |

| Band 4 Ant1 Default |            |         |           |                             |                             |                              |                          |             |    |   |  |  |
|---------------------|------------|---------|-----------|-----------------------------|-----------------------------|------------------------------|--------------------------|-------------|----|---|--|--|
| BW (MHz)            | Modulation | RB Size | RB Offset | Power<br>Max<br>Ch./F.Freq. | Power<br>Min<br>Ch./F.Freq. | Power<br>High<br>Ch./F.Freq. | Turn-up<br>Time<br>(sec) | MPE<br>(dB) |    |   |  |  |
| Channel             |            |         |           |                             |                             |                              |                          |             |    |   |  |  |
| Frequency (MHz)     |            |         |           |                             |                             |                              |                          |             |    |   |  |  |
| 20                  | QPSK       | 1       | 0         | 22.79                       | 22.83                       | 22.80                        |                          |             | 24 | 0 |  |  |
| 20                  | QPSK       | 1       | 49        | 22.80                       | 22.83                       | 22.87                        |                          |             |    |   |  |  |
| 20                  | QPSK       | 1       | 99        | 22.80                       | 22.86                       | 22.87                        |                          |             | 23 | 1 |  |  |
| 20                  | QPSK       | 50      | 0         | 21.98                       | 21.99                       | 21.91                        |                          |             |    |   |  |  |
| 20                  | QPSK       | 50      | 24        | 21.98                       | 21.91                       | 21.89                        |                          |             | 23 | 1 |  |  |
| 20                  | QPSK       | 50      | 50        | 21.72                       | 21.78                       | 21.76                        |                          |             |    |   |  |  |
| 20                  | QPSK       | 100     | 0         | 21.83                       | 21.71                       | 21.69                        |                          |             | 23 | 1 |  |  |
| 20                  | QPSK       | 100     | 0         | 22.11                       | 22.14                       | 21.89                        |                          |             |    |   |  |  |
| 20                  | HQAM       | 1       | 49        | 21.97                       | 22.01                       | 21.99                        |                          |             | 23 | 1 |  |  |
| 20                  | HQAM       | 1       | 99        | 22.01                       | 22.01                       | 21.98                        |                          |             |    |   |  |  |
| 20                  | HQAM       | 50      | 0         | 20.91                       | 21.03                       | 20.99                        |                          |             | 22 | 2 |  |  |
| 20                  | HQAM       | 50      | 24        | 20.92                       | 20.95                       | 20.87                        |                          |             |    |   |  |  |
| 20                  | HQAM       | 50      | 50        | 20.81                       | 20.88                       | 20.78                        |                          |             | 21 | 3 |  |  |
| 20                  | HQAM       | 100     | 0         | 20.18                       | 20.32                       | 20.22                        |                          |             |    |   |  |  |
| 20                  | HQAM       | 1       | 0         | 17.73                       | 17.82                       | 17.72                        |                          |             | 19 | 5 |  |  |
| 20                  | HQAM       | 1       | 49        | 17.72                       | 17.78                       | 17.69                        |                          |             |    |   |  |  |
| 20                  | HQAM       | 1       | 99        | 17.48                       | 17.57                       | 17.43                        |                          |             | 19 | 5 |  |  |
| 20                  | HQAM       | 50      | 0         | 17.25                       | 17.44                       | 17.35                        |                          |             |    |   |  |  |
| 20                  | HQAM       | 50      | 24        | 17.38                       | 17.52                       | 17.45                        |                          |             | 19 | 5 |  |  |
| 20                  | HQAM       | 50      | 50        | 17.48                       | 17.63                       | 17.58                        |                          |             |    |   |  |  |
| 20                  | HQAM       | 100     | 0         | 17.20                       | 17.35                       | 17.25                        |                          |             | 19 | 5 |  |  |
| 20                  | HQAM       | 100     | 0         | 20.05                       | 20.17                       | 20.05                        |                          |             |    |   |  |  |
| Channel             |            |         |           |                             |                             |                              |                          |             |    |   |  |  |
| Frequency (MHz)     |            |         |           |                             |                             |                              |                          |             |    |   |  |  |
| 15                  | QPSK       | 1       | 0         | 22.87                       | 22.75                       | 22.73                        |                          |             | 24 | 0 |  |  |
| 15                  | QPSK       | 1       | 37        | 22.82                       | 22.84                       | 22.84                        |                          |             |    |   |  |  |
| 15                  | QPSK       | 1       | 74        | 22.82                       | 22.48                       | 22.42                        |                          |             | 23 | 1 |  |  |
| 15                  | QPSK       | 36      | 0         | 21.88                       | 21.91                       | 21.78                        |                          |             |    |   |  |  |
| 15                  | QPSK       | 36      | 0         | 21.78                       | 21.88                       | 21.79                        |                          |             | 23 | 1 |  |  |
| 15                  | QPSK       | 36      | 36        | 21.65                       | 21.65                       | 21.61                        |                          |             |    |   |  |  |
| 15                  | QPSK       | 75      | 0         | 21.69                       | 21.69                       | 21.64                        |                          |             | 23 | 1 |  |  |
| 15                  | QPSK       | 75      | 0         | 21.97                       | 22.07                       | 22.02                        |                          |             |    |   |  |  |
| 15                  | HQAM       | 1       | 37        | 21.84                       | 21.92                       | 21.84                        |                          |             | 23 | 1 |  |  |
| 15                  | HQAM       | 1       | 37        | 21.86                       | 21.87                       | 21.86                        |                          |             |    |   |  |  |
| 15                  | HQAM       | 36      | 0         | 20.77                       | 20.91                       | 20.83                        |                          |             | 22 | 2 |  |  |
| 15                  | HQAM       | 36      | 20        | 20.70                       | 20.80                       | 20.79                        |                          |             |    |   |  |  |
| 15                  | HQAM       | 36      | 0         | 20.69                       | 20.88                       | 20.80                        |                          |             | 21 | 3 |  |  |
| 15                  | HQAM       | 75      | 0         | 20.73                       | 20.81                       | 20.68                        |                          |             |    |   |  |  |
| 15                  | HQAM       | 1       | 0         | 20.88                       | 21.01                       | 20.92                        |                          |             | 22 | 2 |  |  |
| 15                  | HQAM       | 37      | 0         | 20.72                       | 20.85                       | 20.78                        |                          |             |    |   |  |  |
| 15                  | HQAM       | 1       | 74        | 20.76                       | 20.85                       | 20.83                        |                          |             | 21 | 3 |  |  |
| 15                  | HQAM       | 36      | 0         | 19.81                       | 19.97                       | 19.81                        |                          |             |    |   |  |  |
| 15                  | HQAM       | 36      | 0         | 19.85                       | 19.99                       | 19.86                        |                          |             | 19 | 5 |  |  |
| 15                  | HQAM       | 36      | 36        | 19.80                       | 19.94                       | 19.82                        |                          |             |    |   |  |  |
| 15                  | HQAM       | 75      | 0         | 20.07                       | 20.24                       | 20.09                        |                          |             | 19 | 5 |  |  |
| 15                  | HQAM       | 75      | 0         | 17.58                       | 17.62                       | 17.49                        |                          |             |    |   |  |  |
| 15                  | HQAM       | 1       | 37        | 17.58                       | 17.67                       | 17.51                        |                          |             | 19 | 5 |  |  |
| 15                  | HQAM       | 1       | 74        | 17.38                       | 17.47                       | 17.30                        |                          |             |    |   |  |  |
| 15                  | HQAM       | 36      | 0         | 17.44                       | 17.45                       | 17.43                        |                          |             | 19 | 5 |  |  |
| 15                  | HQAM       | 36      | 20        | 17.40                       | 17.43                       | 17.33                        |                          |             |    |   |  |  |
| 15                  | HQAM       | 36      | 39        | 17.40                       | 17.53                       | 17.45                        |                          |             | 19 | 5 |  |  |
| 15                  | HQAM       | 75      | 0         | 17.15                       | 17.42                       | 17.40                        |                          |             |    |   |  |  |
| Channel             |            |         |           |                             |                             |                              |                          |             |    |   |  |  |
| Frequency (MHz)     |            |         |           |                             |                             |                              |                          |             |    |   |  |  |
| 10                  | QPSK       | 1       | 0         | 22.48                       | 22.75                       | 22.75                        |                          |             | 24 | 0 |  |  |
| 10                  | QPSK       | 1       | 25        | 22.57                       | 22.65                       | 22.55                        |                          |             |    |   |  |  |
| 10                  | QPSK       | 1       | 49        | 22.54                       | 22.49                       | 22.47                        |                          |             | 23 | 1 |  |  |
| 10                  | QPSK       | 25      | 0         | 21.88                       | 21.89                       | 21.81                        |                          |             |    |   |  |  |
| 10                  | QPSK       | 25      | 12        | 21.77                       | 21.83                       | 21.78                        |                          |             | 23 | 1 |  |  |
| 10                  | QPSK       | 25      | 25        | 21.59                       | 21.68                       | 21.68                        |                          |             |    |   |  |  |
| 10                  | QPSK       | 100     | 0         | 21.67                       | 21.67                       | 21.63                        |                          |             | 23 | 1 |  |  |
| 10                  | HQAM       | 1       | 0         | 22.00                       | 22.07                       | 22.03                        |                          |             |    |   |  |  |
| 10                  | HQAM       | 1       | 25        | 21.89                       | 21.91                       | 21.88                        |                          |             | 23 | 1 |  |  |
| 10                  | HQAM       | 1       | 49        | 21.88                       | 21.87                       | 21.86                        |                          |             |    |   |  |  |
| 10                  | HQAM       | 25      | 0         | 20.86                       | 20.97                       | 20.77                        |                          |             | 22 | 2 |  |  |
| 10                  | HQAM       | 25      | 12        | 20.87                       | 20.85                       | 20.79                        |                          |             |    |   |  |  |
| 10                  | HQAM       | 25      | 12        | 20.70                       | 20.80                       | 20.80                        |                          |             | 22 | 2 |  |  |
| 10                  | HQAM       | 50      | 0         | 20.71                       | 20.86                       | 20.72                        |                          |             |    |   |  |  |
| 10                  | HQAM       | 1       | 0         | 20.88                       | 20.94                       | 20.89                        |                          |             | 22 | 2 |  |  |
| 10                  | HQAM       | 1       | 25        | 20.74                       | 20.84                       | 20.77                        |                          |             |    |   |  |  |
| 10                  | HQAM       | 1       | 49        | 20.78                       | 20.88                       | 20.88                        |                          |             | 21 | 3 |  |  |
| 10                  | HQAM       | 25      | 0         | 19.89                       | 19.97                       | 19.90                        |                          |             |    |   |  |  |
| 10                  | HQAM       | 25      | 12        | 19.89                       | 19.97                       | 19.92                        |                          |             | 19 | 5 |  |  |
| 10                  | HQAM       | 50      | 0         | 19.81                       | 19.88                       | 19.79                        |                          |             |    |   |  |  |
| 10                  | HQAM       | 50      | 0         | 20.11                       | 20.22                       | 20.08                        |                          |             | 19 | 5 |  |  |
| 10                  | HQAM       | 50      | 0         | 17.65                       | 17.77                       | 17.61                        |                          |             |    |   |  |  |
| 10                  | HQAM       | 1       | 25        | 17.65                       | 17.73                       | 17.58                        |                          |             | 19 | 5 |  |  |
| 10                  | HQAM       | 1       | 49        | 17.42                       | 17.49                       | 17.33                        |                          |             |    |   |  |  |
| 10                  | HQAM       | 1       | 99        | 17.50                       | 17.51                       | 17.43                        |                          |             | 19 | 5 |  |  |
| 10                  | HQAM       | 25      | 12        | 17.29                       | 17.42                       | 17.36                        |                          |             |    |   |  |  |
| 10                  | HQAM       | 25      | 25        | 17.35                       | 17.49                       | 17.47                        |                          |             | 19 | 5 |  |  |
| 10                  | HQAM       | 50      | 0         | 17.58                       | 17.62                       | 17.49                        |                          |             |    |   |  |  |
| Channel             |            |         |           |                             |                             |                              |                          |             |    |   |  |  |
| Frequency (MHz)     |            |         |           |                             |                             |                              |                          |             |    |   |  |  |
| 5                   | QPSK       | 1       | 0         | 22.42                       | 22.75                       | 22.75                        |                          |             | 24 | 0 |  |  |
| 5                   | QPSK       | 1       | 12        | 22.57                       | 22.49                       | 22.50                        |                          |             |    |   |  |  |
| 5                   | QPSK       | 1       | 24        | 22.51                       | 22.46                       | 22.47                        |                          |             | 23 | 1 |  |  |
| 5                   | QPSK       | 12      | 0         | 21.86                       | 21.89                       | 21.81                        |                          |             |    |   |  |  |
| 5                   | QPSK       | 12      | 7         | 21.80                       | 21.85                       | 21.75                        |                          |             | 23 | 1 |  |  |
| 5                   | QPSK       | 12      | 13        | 21.66                       | 21.64                       | 21.63                        |                          |             |    |   |  |  |
| 5                   | QPSK       | 36      | 0         | 21.53                       | 21.58                       | 21.53                        |                          |             | 23 | 1 |  |  |
| 5                   | HQAM       | 1       | 0         | 22.01                       | 22.03                       | 22.00                        |                          |             |    |   |  |  |
| 5                   | HQAM       | 1       | 12        | 21.66                       | 21.93                       | 21.88                        |                          |             | 23 | 1 |  |  |
| 5                   | HQAM       | 1       | 24        | 21.06                       | 21.93                       | 21.88                        |                          |             |    |   |  |  |
| 5                   | HQAM       | 12      | 0         | 20.82                       | 20.89                       | 20.77                        |                          |             | 22 | 2 |  |  |
| 5                   | HQAM       | 12      | 7         | 20.69                       | 20.80                       | 20.73                        |                          |             |    |   |  |  |
| 5                   | HQAM       | 12      | 13        | 20.69                       | 20.81                       | 20.68                        |                          |             | 22 | 2 |  |  |
| 5                   | HQAM       | 25      | 0         | 20.71                       | 20.81                       | 20.76                        |                          |             |    |   |  |  |
| 5                   | HQAM       | 1       | 0         | 20.30                       | 20.93                       | 20.96                        |                          |             | 22 | 2 |  |  |
| 5                   | HQAM       | 1       | 12        | 20.77                       | 20.87                       | 20.79                        |                          |             |    |   |  |  |
| 5                   | HQAM       | 1       | 24        | 20.80                       | 20.85                       | 20.85                        |                          |             | 21 | 3 |  |  |
| 5                   | HQAM       | 12      | 0         | 19.82                       | 19.92                       | 19.87                        |                          |             |    |   |  |  |
| 5                   | HQAM       | 12      | 7         | 19.83                       | 19.95                       | 19.85                        |                          |             | 19 | 5 |  |  |
| 5                   | HQAM       | 12      | 13        | 19.77                       | 19.89                       | 19.78                        |                          |             |    |   |  |  |
| 5                   | HQAM       | 25      | 0         | 20.12                       | 20.21                       | 20.13                        |                          |             | 19 | 5 |  |  |
| 5                   | HQAM       | 25      | 0         | 17.63                       | 17.68                       | 17.63                        |                          |             |    |   |  |  |
| 5                   | HQAM       | 1       | 25        | 17.62                       | 17.68                       | 17.58                        |                          |             | 19 | 5 |  |  |
| 5                   | HQAM       | 1       | 24        | 17.40                       | 17.44                       | 17.36                        |                          |             |    |   |  |  |
| 5                   | HQAM       | 12      | 0         | 17.48                       | 17.52                       | 17.48                        |                          |             | 19 | 5 |  |  |
| 5                   | HQAM       | 12      | 13        | 17.40                       | 17.54                       | 17.46                        |                          |             |    |   |  |  |
| 5                   | HQAM       | 25      | 0         | 17.65                       | 17.64                       | 17.49                        |                          |             | 19 | 5 |  |  |
| 5                   | HQAM       | 25      | 0         | 19.66                       | 19.75                       | 19.66                        |                          |             |    |   |  |  |
| Channel             |            |         |           |                             |                             |                              |                          |             |    |   |  |  |
| Frequency (MHz)     |            |         |           |                             |                             |                              |                          |             |    |   |  |  |
| 3                   | QPSK       | 1       | 0         | 22.65                       | 22.94                       | 22.96                        |                          |             | 24 | 0 |  |  |
| 3                   | QPSK       | 1       | 14        | 22.52                       | 22.51                       | 22.46                        |                          |             |    |   |  |  |
| 3                   | QPSK       | 8       | 0         | 21.09                       | 21.84                       | 21.77                        |                          |             | 23 | 1 |  |  |
| 3                   | QPSK       | 8       | 4         | 21.61                       | 21.78                       | 21.81                        |                          |             |    |   |  |  |
| 3                   | QPSK       | 8       | 7         | 21.80                       | 21.71                       | 21.68                        |                          |             | 23 | 1 |  |  |
| 3                   | QPSK       | 15      | 0         | 21.53                       | 21.67                       | 21.56                        |                          |             |    |   |  |  |
| 3                   | QPSK       | 15      | 0         | 21.60                       | 21.60                       | 21.57                        |                          |             | 23 | 1 |  |  |
| 3                   | HQAM       | 1       | 0         | 22.02                       | 22.02                       | 22.01                        |                          |             |    |   |  |  |
| 3                   | HQAM       | 1       | 8         | 21.83                       | 21.87                       | 21.87                        |                          |             | 23 | 1 |  |  |
| 3                   | HQAM       | 1       | 14        | 21.87                       | 21.91                       | 21.83                        |                          |             |    |   |  |  |
| 3                   | HQAM       | 8       | 0         | 20.94                       | 20.94                       | 20.92                        |                          |             | 23 | 1 |  |  |
| 3                   | HQAM       | 8       | 4         | 20.74                       | 20.98                       | 20.98                        |                          |             |    |   |  |  |
| 3                   | HQAM       | 8       | 7         | 20.98                       | 20.77                       | 20.96                        |                          |             | 23 | 1 |  |  |
| 3                   | HQAM       | 15      | 0         | 20.78                       | 20.87                       | 20.77                        |                          |             |    |   |  |  |
| 3                   | HQAM       | 1       | 0         | 20.91                       | 20.94                       | 20.88                        |                          |             | 23 | 1 |  |  |
| 3                   | HQAM       | 1       | 8         | 20.72                       | 20.82                       | 20.74                        |                          |             |    |   |  |  |
| 3                   | HQAM       | 1       | 14        | 20.79                       | 20.79                       | 20.72                        |                          |             | 22 | 2 |  |  |
| 3                   | HQAM       | 8       | 0         | 19.89                       | 19.93                       | 19.82                        |                          |             |    |   |  |  |
| 3                   | HQAM       | 8       | 4         | 19.87                       | 19.92                       | 19.93                        |                          |             | 21 | 3 |  |  |
| 3                   | HQAM       | 8       | 7         | 19.72                       | 19.91                       | 19.87                        |                          |             |    |   |  |  |
| 3                   | HQAM       | 15      | 0         | 20.08                       | 20.25                       | 20.14                        |                          |             | 21 | 3 |  |  |
| 3                   | HQAM       | 1       | 0         | 17.68                       | 17.78                       | 17.68                        |                          |             |    |   |  |  |
| 3                   | HQAM       | 1       | 0         | 17.65                       | 17.69                       | 17.55                        |                          |             | 19 | 5 |  |  |
| 3                   | HQAM       | 1       | 14        | 17.43                       | 17.45                       | 17.38                        |                          |             |    |   |  |  |
| 3                   | HQAM       | 1       | 14        | 17.43                       | 17.45                       | 17.38                        |                          |             | 19 | 5 |  |  |
| 3                   | HQAM       | 8       | 0         | 17.25                       | 17.43                       | 17.25                        |                          |             |    |   |  |  |
| 3                   | HQAM       | 8       | 7         | 17.33                       | 17.67                       | 17.48                        |                          |             | 19 | 5 |  |  |
| 3                   | HQAM       | 8       | 7         | 17.33                       | 17.67                       | 17.53                        |                          |             |    |   |  |  |
| Channel             |            |         |           |                             |                             |                              |                          |             |    |   |  |  |
| Frequency (MHz)     |            |         |           |                             |                             |                              |                          |             |    |   |  |  |
| 14                  | QPSK       | 1       | 0         | 22.16                       | 22.93                       | 22.94                        |                          |             | 24 | 0 |  |  |
| 14                  | QPSK       | 1       | 12        | 22.01                       | 22.28                       | 22.24                        |                          |             |    |   |  |  |
| 14                  | QPSK       | 1       | 5         | 22.13                       | 22.24                       | 22.19                        |                          |             | 23 | 1 |  |  |
| 14                  | QPSK       | 1       | 14        | 22.04                       | 22.06                       | 22.01                        |                          |             |    |   |  |  |
| 14                  | QPSK       | 3       | 0         | 22.15                       | 22.18                       | 22.14                        |                          |             | 23 | 1 |  |  |
| 14                  | QPSK       | 3       | 5         | 22.04                       | 22.15                       | 22.08                        |                          |             |    |   |  |  |
| 14                  | HQAM       | 1       | 0         | 21.23                       | 21.41                       | 21.25                        |                          |             | 23 | 1 |  |  |
| 14                  | HQAM       | 1       | 3         | 21.18                       | 21.37                       | 21.23                        |                          |             |    |   |  |  |
| 14                  | HQAM       | 3       | 0         | 21.11                       | 21.36                       | 21.08                        |                          |             | 22 | 2 |  |  |
| 14                  | HQAM       | 3       | 5         | 20.95                       | 21.03                       | 20.90                        |                          |             |    |   |  |  |
| 14                  | HQAM       | 6       | 0         | 20.10                       | 20.10                       | 20.00                        |                          |             | 22 | 2 |  |  |
| 14                  | HQAM       | 6       | 0         | 20.34                       | 20.55                       | 20.41                        |                          |             |    |   |  |  |
| 14                  | HQAM       | 3       | 0         | 20.35                       | 20.35                       | 20.30                        |                          |             | 22 | 2 |  |  |
| 14                  | HQAM       | 3       | 5         | 20.34                       | 20.39                       | 20.28                        |                          |             |    |   |  |  |
| 14                  | HQAM       | 6       | 0         | 20.36                       | 20.19                       | 20.23                        |                          |             | 21 | 3 |  |  |
| 14                  | HQAM       | 6       | 0         | 19.28                       | 19.40                       | 19.09                        |                          |             |    |   |  |  |
| 14                  | HQAM       | 6       | 0         | 19.28                       | 19.40                       | 19.09                        |                          |             | 21 | 3 |  |  |
| 14                  | HQAM       | 3       | 5         | 19.28                       | 19.40                       | 19.09                        |                          |             |    |   |  |  |
| 14                  | HQAM       | 1       | 3         | 17.03                       | 17.21                       | 17.21                        |                          |             | 19 | 5 |  |  |
| 14                  | HQAM       | 1       | 6         | 17.08                       | 17.17                       | 17.07                        |                          |             |    |   |  |  |
| 14                  | HQAM</     |         |           |                             |                             |                              |                          |             |    |   |  |  |

| Band 38 Ant1 Default |            |         |           |                       |                          |                        |                     |          |  |  |
|----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel              |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |  |  |
| Frequency (MHz)      |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |  |
| 20                   | QPSK       | 1       | 0         | 23.08                 | 23.25                    | 23.17                  | 24                  | 0        |  |  |
| 20                   | QPSK       | 1       | 49        | 23.12                 | 23.18                    | 23.15                  |                     |          |  |  |
| 20                   | QPSK       | 1       | 99        | 23.03                 | 23.08                    | 23.06                  |                     |          |  |  |
| 20                   | QPSK       | 50      | 0         | 22.21                 | 22.26                    | 22.20                  |                     |          |  |  |
| 20                   | QPSK       | 50      | 24        | 22.01                 | 22.15                    | 22.10                  | 23                  | 1        |  |  |
| 20                   | QPSK       | 50      | 50        | 22.02                 | 22.11                    | 22.04                  |                     |          |  |  |
| 20                   | QPSK       | 100     | 0         | 22.21                 | 22.41                    | 22.27                  |                     |          |  |  |
| 20                   | 16QAM      | 1       | 0         | 22.21                 | 22.36                    | 22.28                  |                     |          |  |  |
| 20                   | 16QAM      | 1       | 49        | 22.10                 | 22.23                    | 22.13                  | 23                  | 1        |  |  |
| 20                   | 16QAM      | 1       | 99        | 22.12                 | 22.19                    | 22.14                  |                     |          |  |  |
| 20                   | 16QAM      | 50      | 0         | 21.54                 | 21.54                    | 21.48                  |                     |          |  |  |
| 20                   | 16QAM      | 50      | 24        | 21.40                 | 21.47                    | 21.32                  |                     |          |  |  |
| 20                   | 16QAM      | 50      | 50        | 21.36                 | 21.45                    | 21.31                  | 22                  | 2        |  |  |
| 20                   | 16QAM      | 100     | 0         | 21.39                 | 21.41                    | 21.42                  |                     |          |  |  |
| 20                   | 64QAM      | 1       | 0         | 21.36                 | 21.17                    | 21.13                  |                     |          |  |  |
| 20                   | 64QAM      | 1       | 49        | 21.02                 | 21.13                    | 21.01                  |                     |          |  |  |
| 20                   | 64QAM      | 1       | 99        | 21.04                 | 21.15                    | 21.08                  | 22                  | 2        |  |  |
| 20                   | 64QAM      | 50      | 0         | 20.43                 | 20.56                    | 20.54                  |                     |          |  |  |
| 20                   | 64QAM      | 50      | 24        | 20.38                 | 20.52                    | 20.43                  |                     |          |  |  |
| 20                   | 64QAM      | 50      | 50        | 20.42                 | 20.50                    | 20.45                  |                     |          |  |  |
| 20                   | 64QAM      | 100     | 0         | 20.41                 | 20.48                    | 20.37                  | 21                  | 3        |  |  |
| 20                   | 256QAM     | 1       | 0         | 18.37                 | 18.42                    | 18.40                  |                     |          |  |  |
| 20                   | 256QAM     | 1       | 49        | 18.24                 | 18.31                    | 18.16                  |                     |          |  |  |
| 20                   | 256QAM     | 1       | 99        | 18.23                 | 18.24                    | 18.14                  |                     |          |  |  |
| 20                   | 256QAM     | 50      | 0         | 18.36                 | 18.36                    | 18.40                  | 19                  | 5        |  |  |
| 20                   | 256QAM     | 50      | 24        | 18.20                 | 18.35                    | 18.18                  |                     |          |  |  |
| 20                   | 256QAM     | 50      | 50        | 18.22                 | 18.28                    | 18.18                  |                     |          |  |  |
| 20                   | 256QAM     | 100     | 0         | 18.25                 | 18.29                    | 18.17                  |                     |          |  |  |
| Channel              |            |         |           | 37825                 | 38000                    | 38175                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)      |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |  |  |
| 15                   | QPSK       | 1       | 0         | 23.17                 | 23.18                    | 23.13                  | 24                  | 0        |  |  |
| 15                   | QPSK       | 1       | 37        | 23.10                 | 23.11                    | 23.09                  |                     |          |  |  |
| 15                   | QPSK       | 1       | 74        | 23.05                 | 23.13                    | 23.09                  |                     |          |  |  |
| 15                   | QPSK       | 36      | 0         | 22.06                 | 22.13                    | 22.12                  |                     |          |  |  |
| 15                   | QPSK       | 36      | 20        | 22.02                 | 22.06                    | 22.07                  | 23                  | 1        |  |  |
| 15                   | QPSK       | 36      | 39        | 22.11                 | 22.15                    | 22.13                  |                     |          |  |  |
| 15                   | QPSK       | 75      | 0         | 22.09                 | 22.30                    | 22.20                  |                     |          |  |  |
| 15                   | 16QAM      | 1       | 0         | 22.10                 | 22.24                    | 22.18                  |                     |          |  |  |
| 15                   | 16QAM      | 1       | 37        | 22.05                 | 22.11                    | 22.07                  | 23                  | 1        |  |  |
| 15                   | 16QAM      | 1       | 74        | 22.03                 | 22.13                    | 22.04                  |                     |          |  |  |
| 15                   | 16QAM      | 36      | 0         | 21.47                 | 21.43                    | 21.38                  |                     |          |  |  |
| 15                   | 16QAM      | 36      | 20        | 21.29                 | 21.34                    | 21.26                  |                     |          |  |  |
| 15                   | 16QAM      | 36      | 39        | 21.23                 | 21.35                    | 21.22                  | 22                  | 2        |  |  |
| 15                   | 16QAM      | 75      | 0         | 21.28                 | 21.29                    | 21.34                  |                     |          |  |  |
| 15                   | 64QAM      | 1       | 0         | 21.22                 | 21.07                    | 21.07                  |                     |          |  |  |
| 15                   | 64QAM      | 1       | 37        | 21.03                 | 21.09                    | 21.01                  |                     |          |  |  |
| 15                   | 64QAM      | 1       | 74        | 21.08                 | 21.11                    | 21.06                  | 21                  | 3        |  |  |
| 15                   | 64QAM      | 36      | 0         | 20.29                 | 20.43                    | 20.43                  |                     |          |  |  |
| 15                   | 64QAM      | 36      | 20        | 20.31                 | 20.37                    | 20.37                  |                     |          |  |  |
| 15                   | 64QAM      | 36      | 39        | 20.33                 | 20.44                    | 20.33                  |                     |          |  |  |
| 15                   | 64QAM      | 75      | 0         | 20.32                 | 20.40                    | 20.29                  | 19                  | 5        |  |  |
| 15                   | 256QAM     | 1       | 0         | 18.29                 | 18.28                    | 18.26                  |                     |          |  |  |
| 15                   | 256QAM     | 1       | 37        | 18.17                 | 18.21                    | 18.03                  |                     |          |  |  |
| 15                   | 256QAM     | 1       | 74        | 18.08                 | 18.18                    | 18.00                  |                     |          |  |  |
| 15                   | 256QAM     | 36      | 0         | 18.22                 | 18.30                    | 18.31                  | 19                  | 5        |  |  |
| 15                   | 256QAM     | 36      | 20        | 18.08                 | 18.25                    | 18.05                  |                     |          |  |  |
| 15                   | 256QAM     | 36      | 39        | 18.13                 | 18.14                    | 18.06                  |                     |          |  |  |
| 15                   | 256QAM     | 75      | 0         | 18.17                 | 18.19                    | 18.05                  |                     |          |  |  |
| Channel              |            |         |           | 37800                 | 38000                    | 38200                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)      |            |         |           | 2575                  | 2595                     | 2615                   |                     |          |  |  |
| 10                   | QPSK       | 1       | 0         | 23.13                 | 23.19                    | 23.15                  | 24                  | 0        |  |  |
| 10                   | QPSK       | 1       | 25        | 23.10                 | 23.12                    | 23.13                  |                     |          |  |  |
| 10                   | QPSK       | 1       | 49        | 23.08                 | 23.14                    | 23.02                  |                     |          |  |  |
| 10                   | QPSK       | 25      | 0         | 22.14                 | 22.20                    | 22.10                  |                     |          |  |  |
| 10                   | QPSK       | 25      | 12        | 22.06                 | 22.08                    | 22.07                  | 23                  | 1        |  |  |
| 10                   | QPSK       | 25      | 25        | 22.01                 | 22.06                    | 22.00                  |                     |          |  |  |
| 10                   | QPSK       | 50      | 0         | 22.08                 | 22.36                    | 22.21                  |                     |          |  |  |
| 10                   | 16QAM      | 1       | 0         | 22.10                 | 22.30                    | 22.16                  |                     |          |  |  |
| 10                   | 16QAM      | 1       | 25        | 22.05                 | 22.12                    | 22.04                  | 23                  | 1        |  |  |
| 10                   | 16QAM      | 1       | 49        | 22.01                 | 22.07                    | 22.00                  |                     |          |  |  |
| 10                   | 16QAM      | 25      | 0         | 21.47                 | 21.44                    | 21.36                  |                     |          |  |  |
| 10                   | 16QAM      | 25      | 12        | 21.34                 | 21.34                    | 21.26                  |                     |          |  |  |
| 10                   | 16QAM      | 25      | 25        | 21.26                 | 21.40                    | 21.17                  | 22                  | 2        |  |  |
| 10                   | 16QAM      | 50      | 0         | 21.32                 | 21.33                    | 21.36                  |                     |          |  |  |
| 10                   | 64QAM      | 1       | 0         | 21.27                 | 21.35                    | 21.27                  |                     |          |  |  |
| 10                   | 64QAM      | 1       | 25        | 21.28                 | 21.33                    | 21.23                  |                     |          |  |  |
| 10                   | 64QAM      | 1       | 49        | 21.24                 | 21.31                    | 21.21                  | 21                  | 3        |  |  |
| 10                   | 64QAM      | 25      | 0         | 20.33                 | 20.46                    | 20.40                  |                     |          |  |  |
| 10                   | 64QAM      | 25      | 12        | 20.26                 | 20.39                    | 20.35                  |                     |          |  |  |
| 10                   | 64QAM      | 25      | 25        | 20.28                 | 20.41                    | 20.33                  |                     |          |  |  |
| 10                   | 64QAM      | 50      | 0         | 20.30                 | 20.36                    | 20.31                  | 19                  | 5        |  |  |
| 10                   | 256QAM     | 1       | 0         | 18.29                 | 18.35                    | 18.27                  |                     |          |  |  |
| 10                   | 256QAM     | 1       | 25        | 18.10                 | 18.20                    | 18.10                  |                     |          |  |  |
| 10                   | 256QAM     | 1       | 49        | 18.10                 | 18.18                    | 18.03                  |                     |          |  |  |
| 10                   | 256QAM     | 25      | 0         | 18.26                 | 18.29                    | 18.27                  | 19                  | 5        |  |  |
| 10                   | 256QAM     | 25      | 12        | 18.09                 | 18.26                    | 18.03                  |                     |          |  |  |
| 10                   | 256QAM     | 25      | 25        | 18.14                 | 18.23                    | 18.12                  |                     |          |  |  |
| 10                   | 256QAM     | 50      | 0         | 18.13                 | 18.21                    | 18.03                  |                     |          |  |  |
| Channel              |            |         |           | 37775                 | 38000                    | 38225                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)      |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |          |  |  |
| 5                    | QPSK       | 1       | 0         | 23.06                 | 23.14                    | 23.07                  | 24                  | 0        |  |  |
| 5                    | QPSK       | 1       | 12        | 23.05                 | 23.11                    | 23.00                  |                     |          |  |  |
| 5                    | QPSK       | 1       | 24        | 23.04                 | 23.09                    | 23.08                  |                     |          |  |  |
| 5                    | QPSK       | 12      | 0         | 22.07                 | 22.11                    | 22.07                  |                     |          |  |  |
| 5                    | QPSK       | 12      | 7         | 22.05                 | 22.09                    | 22.06                  | 23                  | 1        |  |  |
| 5                    | QPSK       | 12      | 13        | 22.07                 | 22.13                    | 22.08                  |                     |          |  |  |
| 5                    | QPSK       | 25      | 0         | 22.12                 | 22.24                    | 22.11                  |                     |          |  |  |
| 5                    | 16QAM      | 1       | 0         | 22.01                 | 22.15                    | 22.02                  |                     |          |  |  |
| 5                    | 16QAM      | 1       | 12        | 22.03                 | 22.17                    | 22.15                  | 23                  | 1        |  |  |
| 5                    | 16QAM      | 1       | 24        | 22.09                 | 22.16                    | 22.00                  |                     |          |  |  |
| 5                    | 16QAM      | 12      | 0         | 21.40                 | 21.29                    | 21.26                  |                     |          |  |  |
| 5                    | 16QAM      | 12      | 7         | 21.29                 | 21.27                    | 21.20                  |                     |          |  |  |
| 5                    | 16QAM      | 12      | 13        | 21.17                 | 21.29                    | 21.06                  | 22                  | 2        |  |  |
| 5                    | 16QAM      | 25      | 0         | 21.25                 | 21.21                    | 21.22                  |                     |          |  |  |
| 5                    | 64QAM      | 1       | 0         | 21.18                 | 21.21                    | 21.18                  |                     |          |  |  |
| 5                    | 64QAM      | 1       | 12        | 21.23                 | 21.24                    | 21.15                  |                     |          |  |  |
| 5                    | 64QAM      | 1       | 24        | 21.16                 | 21.21                    | 21.07                  | 21                  | 3        |  |  |
| 5                    | 64QAM      | 12      | 0         | 20.24                 | 20.35                    | 20.27                  |                     |          |  |  |
| 5                    | 64QAM      | 12      | 7         | 20.20                 | 20.28                    | 20.28                  |                     |          |  |  |
| 5                    | 64QAM      | 12      | 13        | 20.20                 | 20.34                    | 20.21                  |                     |          |  |  |
| 5                    | 64QAM      | 25      | 0         | 20.20                 | 20.29                    | 20.22                  | 19                  | 5        |  |  |
| 5                    | 256QAM     | 1       | 0         | 18.24                 | 18.29                    | 18.19                  |                     |          |  |  |

| Band 42 Part 27Q Ant2 Default |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                      | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                       |            |         |           | 42190                 | 42590                    | 42990                  |                     |          |  |
| Frequency (MHz)               |            |         |           | 3460                  | 3500                     | 3540                   |                     |          |  |
| 20                            | QPSK       | 1       | 0         | 22.55                 | 22.72                    | 22.35                  | 24                  | 0        |  |
| 20                            | QPSK       | 1       | 49        | 22.40                 | 22.66                    | 22.36                  |                     |          |  |
| 20                            | QPSK       | 1       | 99        | 22.42                 | 22.63                    | 22.45                  |                     |          |  |
| 20                            | QPSK       | 50      | 0         | 21.54                 | 21.72                    | 21.42                  | 23                  | 1        |  |
| 20                            | QPSK       | 50      | 24        | 21.47                 | 21.61                    | 21.28                  |                     |          |  |
| 20                            | QPSK       | 50      | 50        | 21.49                 | 21.64                    | 21.31                  |                     |          |  |
| 20                            | QPSK       | 100     | 0         | 21.47                 | 21.56                    | 21.54                  | 23                  | 1        |  |
| 20                            | 16QAM      | 1       | 0         | 21.67                 | 21.73                    | 21.59                  |                     |          |  |
| 20                            | 16QAM      | 1       | 49        | 21.57                 | 21.59                    | 21.46                  |                     |          |  |
| 20                            | 16QAM      | 1       | 99        | 21.53                 | 21.68                    | 21.50                  | 22                  | 2        |  |
| 20                            | 16QAM      | 50      | 0         | 20.51                 | 20.64                    | 20.47                  |                     |          |  |
| 20                            | 16QAM      | 50      | 24        | 20.46                 | 20.54                    | 20.41                  |                     |          |  |
| 20                            | 16QAM      | 50      | 50        | 20.39                 | 20.59                    | 20.34                  | 22                  | 2        |  |
| 20                            | 16QAM      | 100     | 0         | 20.24                 | 20.25                    | 20.34                  |                     |          |  |
| 20                            | 64QAM      | 1       | 0         | 20.10                 | 20.17                    | 20.18                  | 22                  | 2        |  |
| 20                            | 64QAM      | 1       | 49        | 20.00                 | 20.09                    | 20.17                  |                     |          |  |
| 20                            | 64QAM      | 1       | 99        | 20.02                 | 20.18                    | 20.12                  |                     |          |  |
| 20                            | 64QAM      | 50      | 0         | 19.33                 | 19.35                    | 19.37                  | 21                  | 3        |  |
| 20                            | 64QAM      | 50      | 24        | 19.20                 | 19.22                    | 19.26                  |                     |          |  |
| 20                            | 64QAM      | 50      | 50        | 19.23                 | 19.25                    | 19.25                  |                     |          |  |
| 20                            | 64QAM      | 100     | 0         | 19.24                 | 19.29                    | 19.30                  | 19                  | 5        |  |
| 20                            | 256QAM     | 1       | 0         | 17.50                 | 17.71                    | 17.36                  |                     |          |  |
| 20                            | 256QAM     | 1       | 49        | 17.37                 | 17.65                    | 17.37                  |                     |          |  |
| 20                            | 256QAM     | 1       | 99        | 17.43                 | 17.63                    | 17.41                  | 19                  | 5        |  |
| 20                            | 256QAM     | 50      | 0         | 17.59                 | 17.69                    | 17.37                  |                     |          |  |
| 20                            | 256QAM     | 50      | 24        | 17.40                 | 17.64                    | 17.32                  |                     |          |  |
| 20                            | 256QAM     | 50      | 50        | 17.38                 | 17.64                    | 17.40                  | 20                  |          |  |
| 20                            | 256QAM     | 100     | 0         | 17.51                 | 17.70                    | 17.35                  |                     |          |  |
| Channel                       |            |         |           | 42165                 | 42590                    | 43015                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)               |            |         |           | 3457.5                | 3500                     | 3542.5                 |                     |          |  |
| 15                            | QPSK       | 1       | 0         | 22.41                 | 22.62                    | 22.30                  | 24                  | 0        |  |
| 15                            | QPSK       | 1       | 37        | 22.25                 | 22.57                    | 22.30                  |                     |          |  |
| 15                            | QPSK       | 1       | 74        | 22.28                 | 22.53                    | 22.38                  |                     |          |  |
| 15                            | QPSK       | 36      | 0         | 21.41                 | 21.64                    | 21.31                  | 23                  | 1        |  |
| 15                            | QPSK       | 36      | 20        | 21.36                 | 21.48                    | 21.17                  |                     |          |  |
| 15                            | QPSK       | 36      | 39        | 21.42                 | 21.57                    | 21.23                  |                     |          |  |
| 15                            | QPSK       | 75      | 0         | 21.39                 | 21.41                    | 21.43                  | 23                  | 1        |  |
| 15                            | 16QAM      | 1       | 0         | 21.55                 | 21.66                    | 21.52                  |                     |          |  |
| 15                            | 16QAM      | 1       | 37        | 21.50                 | 21.46                    | 21.32                  |                     |          |  |
| 15                            | 16QAM      | 1       | 74        | 21.39                 | 21.56                    | 21.40                  | 22                  | 2        |  |
| 15                            | 16QAM      | 36      | 0         | 20.44                 | 20.56                    | 20.35                  |                     |          |  |
| 15                            | 16QAM      | 36      | 20        | 20.36                 | 20.48                    | 20.29                  |                     |          |  |
| 15                            | 16QAM      | 36      | 39        | 20.30                 | 20.47                    | 20.26                  | 22                  | 2        |  |
| 15                            | 16QAM      | 75      | 0         | 20.15                 | 20.20                    | 20.27                  |                     |          |  |
| 15                            | 64QAM      | 1       | 0         | 20.03                 | 20.03                    | 20.12                  | 22                  | 2        |  |
| 15                            | 64QAM      | 1       | 37        | 20.07                 | 20.11                    | 20.06                  |                     |          |  |
| 15                            | 64QAM      | 1       | 74        | 20.16                 | 20.06                    | 20.05                  |                     |          |  |
| 15                            | 64QAM      | 36      | 0         | 19.22                 | 19.23                    | 19.25                  | 21                  | 3        |  |
| 15                            | 64QAM      | 36      | 20        | 19.08                 | 19.14                    | 19.18                  |                     |          |  |
| 15                            | 64QAM      | 36      | 39        | 19.16                 | 19.17                    | 19.14                  |                     |          |  |
| 15                            | 64QAM      | 75      | 0         | 19.14                 | 19.24                    | 19.22                  | 19                  | 5        |  |
| 15                            | 256QAM     | 1       | 0         | 17.37                 | 17.61                    | 17.23                  |                     |          |  |
| 15                            | 256QAM     | 1       | 37        | 17.29                 | 17.50                    | 17.23                  |                     |          |  |
| 15                            | 256QAM     | 1       | 74        | 17.34                 | 17.52                    | 17.28                  | 19                  | 5        |  |
| 15                            | 256QAM     | 36      | 0         | 17.48                 | 17.60                    | 17.27                  |                     |          |  |
| 15                            | 256QAM     | 36      | 20        | 17.31                 | 17.56                    | 17.26                  |                     |          |  |
| 15                            | 256QAM     | 36      | 39        | 17.25                 | 17.52                    | 17.35                  | 15                  |          |  |
| 15                            | 256QAM     | 75      | 0         | 17.40                 | 17.58                    | 17.28                  |                     |          |  |
| Channel                       |            |         |           | 42140                 | 42590                    | 43040                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)               |            |         |           | 3455                  | 3500                     | 3545                   |                     |          |  |
| 10                            | QPSK       | 1       | 0         | 22.48                 | 22.66                    | 22.27                  | 24                  | 0        |  |
| 10                            | QPSK       | 1       | 25        | 22.32                 | 22.56                    | 22.22                  |                     |          |  |
| 10                            | QPSK       | 1       | 49        | 22.37                 | 22.50                    | 22.38                  |                     |          |  |
| 10                            | QPSK       | 25      | 0         | 21.45                 | 21.63                    | 21.35                  | 23                  | 1        |  |
| 10                            | QPSK       | 25      | 12        | 21.38                 | 21.48                    | 21.18                  |                     |          |  |
| 10                            | QPSK       | 25      | 25        | 21.36                 | 21.49                    | 21.20                  |                     |          |  |
| 10                            | QPSK       | 50      | 0         | 21.36                 | 21.46                    | 21.39                  | 23                  | 1        |  |
| 10                            | 16QAM      | 1       | 0         | 21.59                 | 21.59                    | 21.47                  |                     |          |  |
| 10                            | 16QAM      | 1       | 25        | 21.50                 | 21.45                    | 21.36                  |                     |          |  |
| 10                            | 16QAM      | 1       | 49        | 21.41                 | 21.60                    | 21.43                  | 22                  | 2        |  |
| 10                            | 16QAM      | 25      | 0         | 20.36                 | 20.55                    | 20.38                  |                     |          |  |
| 10                            | 16QAM      | 25      | 12        | 20.32                 | 20.44                    | 20.26                  |                     |          |  |
| 10                            | 16QAM      | 25      | 25        | 20.31                 | 20.47                    | 20.22                  | 22                  | 2        |  |
| 10                            | 16QAM      | 50      | 0         | 20.10                 | 20.18                    | 20.20                  |                     |          |  |
| 10                            | 64QAM      | 1       | 0         | 20.00                 | 20.08                    | 20.05                  |                     |          |  |
| 10                            | 64QAM      | 1       | 25        | 20.10                 | 20.09                    | 20.04                  | 21                  | 3        |  |
| 10                            | 64QAM      | 1       | 49        | 20.19                 | 20.13                    | 20.04                  |                     |          |  |
| 10                            | 64QAM      | 25      | 0         | 19.21                 | 19.29                    | 19.31                  |                     |          |  |
| 10                            | 64QAM      | 25      | 12        | 19.13                 | 19.12                    | 19.17                  | 19                  | 5        |  |
| 10                            | 64QAM      | 25      | 25        | 19.14                 | 19.18                    | 19.19                  |                     |          |  |
| 10                            | 64QAM      | 50      | 0         | 19.12                 | 19.23                    | 19.22                  |                     |          |  |
| 10                            | 256QAM     | 1       | 0         | 17.45                 | 17.57                    | 17.30                  | 19                  | 5        |  |
| 10                            | 256QAM     | 1       | 25        | 17.28                 | 17.56                    | 17.23                  |                     |          |  |
| 10                            | 256QAM     | 1       | 49        | 17.29                 | 17.57                    | 17.30                  |                     |          |  |
| 10                            | 256QAM     | 25      | 0         | 17.53                 | 17.63                    | 17.26                  | 19                  | 5        |  |
| 10                            | 256QAM     | 25      | 12        | 17.28                 | 17.57                    | 17.26                  |                     |          |  |
| 10                            | 256QAM     | 25      | 25        | 17.28                 | 17.49                    | 17.26                  |                     |          |  |
| 10                            | 256QAM     | 50      | 0         | 17.41                 | 17.62                    | 17.22                  | 24                  | 0        |  |
| Channel                       |            |         |           | 42115                 | 42590                    | 43065                  |                     |          |  |
| Frequency (MHz)               |            |         |           | 3452.5                | 3500                     | 3547.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| 5                             | QPSK       | 1       | 0         | 22.40                 | 22.62                    | 22.22                  |                     |          |  |
| 5                             | QPSK       | 1       | 12        | 22.30                 | 22.51                    | 22.31                  | 23                  | 1        |  |
| 5                             | QPSK       | 1       | 24        | 22.34                 | 22.51                    | 22.38                  |                     |          |  |
| 5                             | QPSK       | 12      | 0         | 21.42                 | 21.64                    | 21.32                  |                     |          |  |
| 5                             | QPSK       | 12      | 7         | 21.33                 | 21.48                    | 21.16                  | 23                  | 1        |  |
| 5                             | QPSK       | 12      | 13        | 21.40                 | 21.58                    | 21.20                  |                     |          |  |
| 5                             | QPSK       | 25      | 0         | 21.36                 | 21.42                    | 21.46                  |                     |          |  |
| 5                             | 16QAM      | 1       | 0         | 21.53                 | 21.66                    | 21.51                  | 23                  | 1        |  |
| 5                             | 16QAM      | 1       | 12        | 21.43                 | 21.46                    | 21.39                  |                     |          |  |
| 5                             | 16QAM      | 1       | 24        | 21.43                 | 21.54                    | 21.45                  |                     |          |  |
| 5                             | 16QAM      | 12      | 0         | 20.43                 | 20.50                    | 20.33                  | 22                  | 2        |  |
| 5                             | 16QAM      | 12      | 7         | 20.40                 | 20.43                    | 20.30                  |                     |          |  |
| 5                             | 16QAM      | 12      | 13        | 20.34                 | 20.47                    | 20.19                  |                     |          |  |
| 5                             | 16QAM      | 25      | 0         | 20.11                 | 20.17                    | 20.25                  | 22                  | 2        |  |
| 5                             | 64QAM      | 1       | 0         | 20.03                 | 20.06                    | 20.12                  |                     |          |  |
| 5                             | 64QAM      | 1       | 12        | 20.08                 | 20.07                    | 20.07                  |                     |          |  |
| 5                             | 64QAM      | 1       | 24        | 20.12                 | 20.13                    | 20.02                  | 21                  | 3        |  |
| 5                             | 64QAM      | 12      | 0         | 19.22                 | 19.23                    | 19.29                  |                     |          |  |
| 5                             | 64QAM      | 12      | 7         | 19.09                 | 19.16                    | 19.16                  |                     |          |  |
| 5                             | 64QAM      | 12      | 13        | 19.16                 | 19.14                    | 19.12                  | 19                  | 5        |  |
| 5                             | 64QAM      | 25      | 0         | 19.14                 | 19.19                    | 19.16                  |                     |          |  |
| 5                             | 256QAM     | 1       | 0         | 17.41                 | 17.60                    | 17.31                  |                     |          |  |
| 5                             | 256QAM     | 1       | 12        | 17.31                 | 17.51                    | 17.28                  | 19                  | 5        |  |
| 5                             | 256QAM     | 1       | 24        | 17.38                 | 17.55                    | 17.31                  |                     |          |  |
| 5                             | 256QAM     | 12      | 0         | 17.49                 | 17.54                    | 17.24                  |                     |          |  |
| 5                             | 256QAM     | 12      | 7         | 17.28                 | 17.49                    | 17.18                  | 19                  | 5        |  |
| 5                             | 256QAM     | 12      | 13        | 17.27                 | 17.55                    | 17.31                  |                     |          |  |
| 5                             | 256QAM     | 25      | 0         | 17.45                 | 17.59                    | 17.27                  |                     |          |  |

| Band 7 Ant5 Default |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
|---------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|--|
| BW [MHz]            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Channel             |            |         |           | 20850                 | 21100                    | 21350                  | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Frequency (MHz)     |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |  |  |  |  |
| 20                  | QPSK       | 1       | 0         | 22.45                 | 22.72                    | 22.62                  | 24                  | 0        |  |  |  |  |
| 20                  | QPSK       | 1       | 49        | 22.31                 | 22.62                    | 22.53                  |                     |          |  |  |  |  |
| 20                  | QPSK       | 1       | 99        | 22.27                 | 22.58                    | 22.47                  |                     |          |  |  |  |  |
| 20                  | QPSK       | 50      | 0         | 21.67                 | 21.92                    | 21.62                  | 23                  | 1        |  |  |  |  |
| 20                  | QPSK       | 50      | 24        | 21.54                 | 21.78                    | 21.56                  |                     |          |  |  |  |  |
| 20                  | QPSK       | 50      | 50        | 21.59                 | 21.81                    | 21.53                  |                     |          |  |  |  |  |
| 20                  | QPSK       | 100     | 0         | 21.63                 | 21.82                    | 21.75                  | 23                  | 1        |  |  |  |  |
| 20                  | 16QAM      | 1       | 0         | 22.01                 | 22.27                    | 22.16                  |                     |          |  |  |  |  |
| 20                  | 16QAM      | 1       | 49        | 21.92                 | 22.13                    | 22.09                  |                     |          |  |  |  |  |
| 20                  | 16QAM      | 1       | 99        | 21.90                 | 22.21                    | 22.03                  | 22                  | 2        |  |  |  |  |
| 20                  | 16QAM      | 50      | 0         | 20.87                 | 20.91                    | 20.66                  |                     |          |  |  |  |  |
| 20                  | 16QAM      | 50      | 24        | 20.74                 | 20.85                    | 20.52                  |                     |          |  |  |  |  |
| 20                  | 16QAM      | 50      | 50        | 20.79                 | 20.84                    | 20.56                  | 22                  | 2        |  |  |  |  |
| 20                  | 16QAM      | 100     | 0         | 20.83                 | 20.94                    | 20.91                  |                     |          |  |  |  |  |
| 20                  | 64QAM      | 1       | 0         | 20.55                 | 20.74                    | 20.48                  | 22                  | 2        |  |  |  |  |
| 20                  | 64QAM      | 1       | 49        | 20.43                 | 20.69                    | 20.36                  |                     |          |  |  |  |  |
| 20                  | 64QAM      | 1       | 99        | 20.50                 | 20.59                    | 20.33                  |                     |          |  |  |  |  |
| 20                  | 64QAM      | 50      | 0         | 19.75                 | 19.94                    | 19.68                  | 21                  | 3        |  |  |  |  |
| 20                  | 64QAM      | 50      | 24        | 19.61                 | 19.84                    | 19.55                  |                     |          |  |  |  |  |
| 20                  | 64QAM      | 50      | 50        | 19.51                 | 19.80                    | 19.50                  |                     |          |  |  |  |  |
| 20                  | 64QAM      | 100     | 0         | 19.73                 | 19.90                    | 19.86                  | 19                  | 5        |  |  |  |  |
| 20                  | 256QAM     | 1       | 0         | 17.46                 | 17.67                    | 17.65                  |                     |          |  |  |  |  |
| 20                  | 256QAM     | 1       | 49        | 17.27                 | 17.61                    | 17.52                  |                     |          |  |  |  |  |
| 20                  | 256QAM     | 1       | 99        | 17.25                 | 17.56                    | 17.44                  | 19                  | 5        |  |  |  |  |
| 20                  | 256QAM     | 50      | 0         | 17.43                 | 17.72                    | 17.67                  |                     |          |  |  |  |  |
| 20                  | 256QAM     | 50      | 24        | 17.32                 | 17.59                    | 17.49                  |                     |          |  |  |  |  |
| 20                  | 256QAM     | 50      | 50        | 17.31                 | 17.53                    | 17.50                  | 20                  | 5        |  |  |  |  |
| 20                  | 256QAM     | 100     | 0         | 17.26                 | 17.44                    | 17.35                  |                     |          |  |  |  |  |
| Channel             |            |         |           | 20825                 | 21100                    | 21375                  | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Frequency (MHz)     |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |  |  |  |  |
| 15                  | QPSK       | 1       | 0         | 22.31                 | 22.57                    | 22.51                  | 24                  | 0        |  |  |  |  |
| 15                  | QPSK       | 1       | 37        | 22.22                 | 22.51                    | 22.47                  |                     |          |  |  |  |  |
| 15                  | QPSK       | 1       | 74        | 22.16                 | 22.45                    | 22.40                  |                     |          |  |  |  |  |
| 15                  | QPSK       | 36      | 0         | 21.53                 | 21.80                    | 21.55                  | 23                  | 1        |  |  |  |  |
| 15                  | QPSK       | 36      | 20        | 21.42                 | 21.73                    | 21.46                  |                     |          |  |  |  |  |
| 15                  | QPSK       | 36      | 39        | 21.49                 | 21.74                    | 21.43                  |                     |          |  |  |  |  |
| 15                  | QPSK       | 75      | 0         | 21.57                 | 21.68                    | 21.61                  | 23                  | 1        |  |  |  |  |
| 15                  | 16QAM      | 1       | 0         | 21.92                 | 22.14                    | 22.06                  |                     |          |  |  |  |  |
| 15                  | 16QAM      | 1       | 37        | 21.85                 | 22.03                    | 21.97                  |                     |          |  |  |  |  |
| 15                  | 16QAM      | 1       | 74        | 21.82                 | 22.14                    | 21.90                  | 22                  | 2        |  |  |  |  |
| 15                  | 16QAM      | 36      | 0         | 20.73                 | 20.83                    | 20.54                  |                     |          |  |  |  |  |
| 15                  | 16QAM      | 36      | 20        | 20.63                 | 20.75                    | 20.42                  |                     |          |  |  |  |  |
| 15                  | 16QAM      | 36      | 39        | 20.66                 | 20.77                    | 20.46                  | 22                  | 2        |  |  |  |  |
| 15                  | 16QAM      | 75      | 0         | 20.75                 | 20.88                    | 20.80                  |                     |          |  |  |  |  |
| 15                  | 64QAM      | 1       | 0         | 20.43                 | 20.60                    | 20.40                  |                     |          |  |  |  |  |
| 15                  | 64QAM      | 1       | 37        | 20.37                 | 20.54                    | 20.27                  | 22                  | 2        |  |  |  |  |
| 15                  | 64QAM      | 1       | 74        | 20.43                 | 20.53                    | 20.26                  |                     |          |  |  |  |  |
| 15                  | 64QAM      | 36      | 0         | 19.60                 | 19.84                    | 19.54                  |                     |          |  |  |  |  |
| 15                  | 64QAM      | 36      | 20        | 19.50                 | 19.75                    | 19.45                  | 21                  | 3        |  |  |  |  |
| 15                  | 64QAM      | 36      | 39        | 19.40                 | 19.68                    | 19.39                  |                     |          |  |  |  |  |
| 15                  | 64QAM      | 75      | 0         | 19.65                 | 19.79                    | 19.71                  |                     |          |  |  |  |  |
| 15                  | 256QAM     | 1       | 0         | 17.50                 | 17.73                    | 17.66                  | 19                  | 5        |  |  |  |  |
| 15                  | 256QAM     | 1       | 37        | 17.35                 | 17.62                    | 17.55                  |                     |          |  |  |  |  |
| 15                  | 256QAM     | 1       | 74        | 17.30                 | 17.59                    | 17.50                  |                     |          |  |  |  |  |
| 15                  | 256QAM     | 36      | 0         | 17.47                 | 17.74                    | 17.67                  | 19                  | 5        |  |  |  |  |
| 15                  | 256QAM     | 36      | 20        | 17.29                 | 17.57                    | 17.58                  |                     |          |  |  |  |  |
| 15                  | 256QAM     | 36      | 39        | 17.27                 | 17.55                    | 17.48                  |                     |          |  |  |  |  |
| 15                  | 256QAM     | 75      | 0         | 17.29                 | 17.57                    | 17.46                  | 20                  | 5        |  |  |  |  |
| Channel             |            |         |           | 20800                 | 21100                    | 21400                  |                     |          |  |  |  |  |
| Frequency (MHz)     |            |         |           | 2505                  | 2535                     | 2565                   | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| 10                  | QPSK       | 1       | 0         | 22.39                 | 22.59                    | 22.53                  |                     | 24       |  |  |  |  |
| 10                  | QPSK       | 1       | 25        | 22.23                 | 22.52                    | 22.47                  |                     |          |  |  |  |  |
| 10                  | QPSK       | 1       | 49        | 22.16                 | 22.45                    | 22.37                  |                     |          |  |  |  |  |
| 10                  | QPSK       | 25      | 0         | 21.54                 | 21.85                    | 21.55                  | 23                  | 1        |  |  |  |  |
| 10                  | QPSK       | 25      | 12        | 21.46                 | 21.71                    | 21.49                  |                     |          |  |  |  |  |
| 10                  | QPSK       | 25      | 25        | 21.54                 | 21.71                    | 21.40                  |                     |          |  |  |  |  |
| 10                  | QPSK       | 50      | 0         | 21.57                 | 21.73                    | 21.63                  | 23                  | 1        |  |  |  |  |
| 10                  | 16QAM      | 1       | 0         | 21.94                 | 22.22                    | 22.08                  |                     |          |  |  |  |  |
| 10                  | 16QAM      | 1       | 25        | 21.80                 | 21.99                    | 22.02                  |                     |          |  |  |  |  |
| 10                  | 16QAM      | 1       | 49        | 21.85                 | 22.15                    | 21.89                  | 22                  | 2        |  |  |  |  |
| 10                  | 16QAM      | 25      | 0         | 20.74                 | 20.85                    | 20.54                  |                     |          |  |  |  |  |
| 10                  | 16QAM      | 25      | 12        | 20.63                 | 20.74                    | 20.39                  |                     |          |  |  |  |  |
| 10                  | 16QAM      | 25      | 25        | 20.66                 | 20.71                    | 20.50                  | 22                  | 2        |  |  |  |  |
| 10                  | 16QAM      | 50      | 0         | 20.70                 | 20.80                    | 20.79                  |                     |          |  |  |  |  |
| 10                  | 64QAM      | 1       | 0         | 20.46                 | 20.65                    | 20.42                  |                     |          |  |  |  |  |
| 10                  | 64QAM      | 1       | 25        | 20.38                 | 20.63                    | 20.29                  | 22                  | 2        |  |  |  |  |
| 10                  | 64QAM      | 1       | 49        | 20.35                 | 20.45                    | 20.27                  |                     |          |  |  |  |  |
| 10                  | 64QAM      | 25      | 0         | 19.61                 | 19.79                    | 19.54                  |                     |          |  |  |  |  |
| 10                  | 64QAM      | 25      | 12        | 19.53                 | 19.75                    | 19.45                  | 21                  | 3        |  |  |  |  |
| 10                  | 64QAM      | 25      | 25        | 19.40                 | 19.72                    | 19.38                  |                     |          |  |  |  |  |
| 10                  | 64QAM      | 50      | 0         | 19.59                 | 19.80                    | 19.75                  |                     |          |  |  |  |  |
| 10                  | 256QAM     | 1       | 0         | 17.37                 | 17.63                    | 17.50                  | 19                  | 5        |  |  |  |  |
| 10                  | 256QAM     | 1       | 25        | 17.21                 | 17.53                    | 17.47                  |                     |          |  |  |  |  |
| 10                  | 256QAM     | 1       | 49        | 17.14                 | 17.42                    | 17.37                  |                     |          |  |  |  |  |
| 10                  | 256QAM     | 25      | 0         | 17.42                 | 17.57                    | 17.52                  | 19                  | 5        |  |  |  |  |
| 10                  | 256QAM     | 25      | 12        | 17.27                 | 17.51                    | 17.47                  |                     |          |  |  |  |  |
| 10                  | 256QAM     | 25      | 25        | 17.13                 | 17.44                    | 17.34                  |                     |          |  |  |  |  |
| 10                  | 256QAM     | 50      | 0         | 17.43                 | 17.57                    | 17.49                  | 21                  | 5        |  |  |  |  |
| Channel             |            |         |           | 20775                 | 21100                    | 21425                  |                     |          |  |  |  |  |
| Frequency (MHz)     |            |         |           | 2502.5                | 2535                     | 2567.5                 | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| 5                   | QPSK       | 1       | 0         | 22.30                 | 22.59                    | 22.53                  |                     | 24       |  |  |  |  |
| 5                   | QPSK       | 1       | 12        | 22.17                 | 22.49                    | 22.39                  |                     |          |  |  |  |  |
| 5                   | QPSK       | 1       | 24        | 22.20                 | 22.46                    | 22.38                  |                     |          |  |  |  |  |
| 5                   | QPSK       | 12      | 0         | 21.54                 | 21.83                    | 21.51                  | 23                  | 1        |  |  |  |  |
| 5                   | QPSK       | 12      | 7         | 21.42                 | 21.67                    | 21.48                  |                     |          |  |  |  |  |
| 5                   | QPSK       | 12      | 13        | 21.53                 | 21.71                    | 21.48                  |                     |          |  |  |  |  |
| 5                   | QPSK       | 25      | 0         | 21.57                 | 21.75                    | 21.67                  | 23                  | 1        |  |  |  |  |
| 5                   | 16QAM      | 1       | 0         | 21.89                 | 22.19                    | 22.10                  |                     |          |  |  |  |  |
| 5                   | 16QAM      | 1       | 12        | 21.85                 | 22.00                    | 22.01                  |                     |          |  |  |  |  |
| 5                   | 16QAM      | 1       | 24        | 21.81                 | 22.10                    | 21.92                  | 22                  | 2        |  |  |  |  |
| 5                   | 16QAM      | 12      | 0         | 20.78                 | 20.81                    | 20.58                  |                     |          |  |  |  |  |
| 5                   | 16QAM      | 12      | 7         | 20.65                 | 20.73                    | 20.46                  |                     |          |  |  |  |  |
| 5                   | 16QAM      | 12      | 13        | 20.66                 | 20.76                    | 20.42                  | 22                  | 2        |  |  |  |  |
| 5                   | 16QAM      | 25      | 0         | 20.78                 | 20.86                    | 20.76                  |                     |          |  |  |  |  |
| 5                   | 64QAM      | 1       | 0         | 20.49                 | 20.62                    | 20.34                  |                     |          |  |  |  |  |
| 5                   | 64QAM      | 1       | 12        | 20.33                 | 20.55                    | 20.28                  | 22                  | 2        |  |  |  |  |
| 5                   | 64QAM      | 1       | 24        | 20.38                 | 20.47                    | 20.28                  |                     |          |  |  |  |  |
| 5                   | 64QAM      | 12      | 0         | 19.67                 | 19.80                    | 19.58                  |                     |          |  |  |  |  |
| 5                   | 64QAM      | 12      | 7         | 19.48                 | 19.73                    | 19.46                  | 21                  | 3        |  |  |  |  |
| 5                   | 64QAM      | 12      | 13        | 19.40                 | 19.73                    | 19.42                  |                     |          |  |  |  |  |
| 5                   | 64QAM      | 25      | 0         | 19.61                 | 19.76                    | 19.73                  |                     |          |  |  |  |  |
| 5                   | 256QAM     | 1       | 0         | 17.52                 | 17.64                    | 17.55                  | 19                  | 5        |  |  |  |  |
| 5                   | 256QAM     | 1       | 12        | 17.37                 | 17.51                    | 17.34                  |                     |          |  |  |  |  |
| 5                   | 256QAM     | 1       | 24        | 17.20                 | 17.45                    | 17.43                  |                     |          |  |  |  |  |
| 5                   | 256QAM     | 12      | 0         | 17.29                 | 17.62                    | 17.56                  | 19                  | 5        |  |  |  |  |
| 5                   | 256QAM     | 12      | 7         | 17.16                 | 17.47                    | 17.39                  |                     |          |  |  |  |  |
| 5                   | 256QAM     | 12      | 13        | 17.18                 | 17.45                    | 17.37                  |                     |          |  |  |  |  |
| 5                   | 256QAM     | 25      | 0         | 17.25                 | 17.58                    | 17.51                  | 19                  | 5        |  |  |  |  |
|                     |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
|                     |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
|                     |            |         |           |                       |                          |                        |                     |          |  |  |  |  |

| Band 38 Ant5 Default |            |         |           |                       |                          |                        |                     |          |  |
|----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel              |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |  |
| Frequency (MHz)      |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20                   | QPSK       | 1       | 0         | 22.94                 | 22.95                    | 22.93                  | 24                  | 0        |  |
| 20                   | QPSK       | 1       | 49        | 22.75                 | 22.87                    | 22.80                  |                     |          |  |
| 20                   | QPSK       | 1       | 99        | 22.73                 | 22.85                    | 22.78                  |                     |          |  |
| 20                   | QPSK       | 50      | 0         | 21.91                 | 21.94                    | 21.89                  | 23                  | 1        |  |
| 20                   | QPSK       | 50      | 24        | 21.81                 | 21.91                    | 21.84                  |                     |          |  |
| 20                   | QPSK       | 50      | 50        | 21.77                 | 21.88                    | 21.78                  |                     |          |  |
| 20                   | QPSK       | 100     | 0         | 21.82                 | 21.95                    | 21.81                  | 23                  | 1        |  |
| 20                   | 16QAM      | 1       | 0         | 21.65                 | 21.71                    | 21.62                  |                     |          |  |
| 20                   | 16QAM      | 1       | 49        | 21.53                 | 21.65                    | 21.59                  |                     |          |  |
| 20                   | 16QAM      | 1       | 99        | 21.55                 | 21.68                    | 21.61                  | 22                  | 2        |  |
| 20                   | 16QAM      | 50      | 0         | 20.91                 | 21.00                    | 20.89                  |                     |          |  |
| 20                   | 16QAM      | 50      | 24        | 20.91                 | 20.98                    | 20.93                  |                     |          |  |
| 20                   | 16QAM      | 50      | 50        | 20.83                 | 20.95                    | 20.82                  | 22                  | 2        |  |
| 20                   | 64QAM      | 1       | 0         | 20.79                 | 20.87                    | 20.78                  |                     |          |  |
| 20                   | 64QAM      | 1       | 0         | 21.10                 | 21.20                    | 21.10                  |                     |          |  |
| 20                   | 64QAM      | 1       | 49        | 20.98                 | 21.05                    | 20.95                  | 22                  | 2        |  |
| 20                   | 64QAM      | 1       | 99        | 21.06                 | 21.17                    | 21.02                  |                     |          |  |
| 20                   | 64QAM      | 50      | 0         | 19.78                 | 19.89                    | 19.75                  |                     |          |  |
| 20                   | 64QAM      | 50      | 24        | 19.63                 | 19.77                    | 19.62                  | 21                  | 3        |  |
| 20                   | 64QAM      | 50      | 50        | 19.77                 | 19.86                    | 19.71                  |                     |          |  |
| 20                   | 64QAM      | 100     | 0         | 19.91                 | 19.98                    | 19.84                  |                     |          |  |
| 20                   | 256QAM     | 1       | 0         | 17.95                 | 17.90                    | 17.91                  | 19                  | 5        |  |
| 20                   | 256QAM     | 1       | 49        | 17.71                 | 17.84                    | 17.77                  |                     |          |  |
| 20                   | 256QAM     | 1       | 99        | 17.78                 | 17.85                    | 17.78                  |                     |          |  |
| 20                   | 256QAM     | 50      | 0         | 17.90                 | 17.93                    | 17.90                  | 19                  | 5        |  |
| 20                   | 256QAM     | 50      | 24        | 17.76                 | 17.90                    | 17.81                  |                     |          |  |
| 20                   | 256QAM     | 50      | 50        | 17.68                 | 17.86                    | 17.77                  |                     |          |  |
| 20                   | 256QAM     | 100     | 0         | 17.65                 | 17.88                    | 17.73                  |                     |          |  |
| Channel              |            |         |           | 37825                 | 38000                    | 38175                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |  |
| 15                   | QPSK       | 1       | 0         | 22.84                 | 22.88                    | 22.83                  | 24                  | 0        |  |
| 15                   | QPSK       | 1       | 37        | 22.68                 | 22.77                    | 22.69                  |                     |          |  |
| 15                   | QPSK       | 1       | 74        | 22.68                 | 22.77                    | 22.68                  |                     |          |  |
| 15                   | QPSK       | 36      | 0         | 21.82                 | 21.83                    | 21.83                  | 23                  | 1        |  |
| 15                   | QPSK       | 36      | 20        | 21.72                 | 21.88                    | 21.73                  |                     |          |  |
| 15                   | QPSK       | 36      | 39        | 21.65                 | 21.77                    | 21.71                  |                     |          |  |
| 15                   | QPSK       | 75      | 0         | 21.75                 | 21.80                    | 21.71                  | 23                  | 1        |  |
| 15                   | 16QAM      | 1       | 0         | 21.54                 | 21.59                    | 21.56                  |                     |          |  |
| 15                   | 16QAM      | 1       | 37        | 21.47                 | 21.55                    | 21.51                  |                     |          |  |
| 15                   | 16QAM      | 1       | 74        | 21.42                 | 21.56                    | 21.48                  | 22                  | 2        |  |
| 15                   | 16QAM      | 36      | 0         | 20.84                 | 20.94                    | 20.82                  |                     |          |  |
| 15                   | 16QAM      | 36      | 20        | 20.79                 | 20.83                    | 20.79                  |                     |          |  |
| 15                   | 16QAM      | 36      | 39        | 20.71                 | 20.84                    | 20.76                  | 22                  | 2        |  |
| 15                   | 16QAM      | 75      | 0         | 20.64                 | 20.81                    | 20.67                  |                     |          |  |
| 15                   | 64QAM      | 1       | 0         | 20.99                 | 21.09                    | 21.00                  |                     |          |  |
| 15                   | 64QAM      | 1       | 37        | 20.85                 | 20.95                    | 20.82                  | 22                  | 2        |  |
| 15                   | 64QAM      | 1       | 74        | 20.96                 | 21.07                    | 20.93                  |                     |          |  |
| 15                   | 64QAM      | 36      | 0         | 19.70                 | 19.80                    | 19.69                  |                     |          |  |
| 15                   | 64QAM      | 36      | 20        | 19.57                 | 19.62                    | 19.54                  | 21                  | 3        |  |
| 15                   | 64QAM      | 36      | 39        | 19.70                 | 19.80                    | 19.58                  |                     |          |  |
| 15                   | 64QAM      | 75      | 0         | 19.76                 | 19.92                    | 19.70                  |                     |          |  |
| 15                   | 256QAM     | 1       | 0         | 17.87                 | 17.78                    | 17.83                  | 19                  | 5        |  |
| 15                   | 256QAM     | 1       | 37        | 17.62                 | 17.78                    | 17.67                  |                     |          |  |
| 15                   | 256QAM     | 1       | 74        | 17.71                 | 17.80                    | 17.67                  |                     |          |  |
| 15                   | 256QAM     | 36      | 0         | 17.76                 | 17.80                    | 17.76                  | 19                  | 5        |  |
| 15                   | 256QAM     | 36      | 20        | 17.67                 | 17.84                    | 17.70                  |                     |          |  |
| 15                   | 256QAM     | 36      | 39        | 17.54                 | 17.72                    | 17.72                  |                     |          |  |
| 15                   | 256QAM     | 75      | 0         | 17.51                 | 17.82                    | 17.62                  |                     |          |  |
| Channel              |            |         |           | 37800                 | 38000                    | 38200                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2575                  | 2595                     | 2615                   |                     |          |  |
| 10                   | QPSK       | 1       | 0         | 22.86                 | 22.87                    | 22.82                  | 24                  | 0        |  |
| 10                   | QPSK       | 1       | 25        | 22.61                 | 22.75                    | 22.68                  |                     |          |  |
| 10                   | QPSK       | 1       | 49        | 22.60                 | 22.75                    | 22.64                  |                     |          |  |
| 10                   | QPSK       | 25      | 0         | 21.85                 | 21.77                    | 21.78                  | 23                  | 1        |  |
| 10                   | QPSK       | 25      | 12        | 21.74                 | 21.87                    | 21.73                  |                     |          |  |
| 10                   | QPSK       | 25      | 25        | 21.65                 | 21.73                    | 21.70                  |                     |          |  |
| 10                   | QPSK       | 50      | 0         | 21.75                 | 21.83                    | 21.73                  | 23                  | 1        |  |
| 10                   | 16QAM      | 1       | 0         | 21.53                 | 21.61                    | 21.56                  |                     |          |  |
| 10                   | 16QAM      | 1       | 25        | 21.39                 | 21.59                    | 21.52                  |                     |          |  |
| 10                   | 16QAM      | 1       | 49        | 21.47                 | 21.56                    | 21.46                  | 22                  | 2        |  |
| 10                   | 16QAM      | 25      | 0         | 20.77                 | 20.88                    | 20.83                  |                     |          |  |
| 10                   | 16QAM      | 25      | 12        | 20.85                 | 20.89                    | 20.84                  |                     |          |  |
| 10                   | 16QAM      | 25      | 25        | 20.77                 | 20.82                    | 20.75                  | 22                  | 2        |  |
| 10                   | 16QAM      | 50      | 0         | 20.69                 | 20.75                    | 20.63                  |                     |          |  |
| 10                   | 64QAM      | 1       | 0         | 21.02                 | 21.08                    | 21.05                  |                     |          |  |
| 10                   | 64QAM      | 1       | 25        | 20.91                 | 20.94                    | 20.85                  | 22                  | 2        |  |
| 10                   | 64QAM      | 1       | 49        | 20.92                 | 21.08                    | 20.93                  |                     |          |  |
| 10                   | 64QAM      | 25      | 0         | 19.69                 | 19.75                    | 19.63                  |                     |          |  |
| 10                   | 64QAM      | 25      | 12        | 19.48                 | 19.70                    | 19.54                  | 21                  | 3        |  |
| 10                   | 64QAM      | 25      | 25        | 19.63                 | 19.78                    | 19.58                  |                     |          |  |
| 10                   | 64QAM      | 50      | 0         | 19.84                 | 19.92                    | 19.78                  |                     |          |  |
| 10                   | 256QAM     | 1       | 0         | 17.90                 | 17.81                    | 17.83                  | 19                  | 5        |  |
| 10                   | 256QAM     | 1       | 25        | 17.63                 | 17.72                    | 17.70                  |                     |          |  |
| 10                   | 256QAM     | 1       | 49        | 17.73                 | 17.76                    | 17.72                  |                     |          |  |
| 10                   | 256QAM     | 25      | 0         | 17.82                 | 17.82                    | 17.79                  | 19                  | 5        |  |
| 10                   | 256QAM     | 25      | 12        | 17.70                 | 17.83                    | 17.74                  |                     |          |  |
| 10                   | 256QAM     | 25      | 25        | 17.54                 | 17.79                    | 17.70                  |                     |          |  |
| 10                   | 256QAM     | 50      | 0         | 17.51                 | 17.83                    | 17.66                  |                     |          |  |
| Channel              |            |         |           | 37775                 | 38000                    | 38225                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |          |  |
| 5                    | QPSK       | 1       | 0         | 22.80                 | 22.87                    | 22.81                  | 24                  | 0        |  |
| 5                    | QPSK       | 1       | 12        | 22.66                 | 22.78                    | 22.69                  |                     |          |  |
| 5                    | QPSK       | 1       | 24        | 22.61                 | 22.76                    | 22.65                  |                     |          |  |
| 5                    | QPSK       | 12      | 0         | 21.84                 | 21.76                    | 21.76                  | 23                  | 1        |  |
| 5                    | QPSK       | 12      | 7         | 21.71                 | 21.85                    | 21.70                  |                     |          |  |
| 5                    | QPSK       | 12      | 13        | 21.66                 | 21.73                    | 21.65                  |                     |          |  |
| 5                    | QPSK       | 25      | 0         | 21.73                 | 21.82                    | 21.71                  | 23                  | 1        |  |
| 5                    | 16QAM      | 1       | 0         | 21.55                 | 21.56                    | 21.51                  |                     |          |  |
| 5                    | 16QAM      | 1       | 12        | 21.41                 | 21.55                    | 21.46                  |                     |          |  |
| 5                    | 16QAM      | 1       | 24        | 21.46                 | 21.62                    | 21.50                  | 22                  | 2        |  |
| 5                    | 16QAM      | 12      | 0         | 20.81                 | 20.93                    | 20.77                  |                     |          |  |
| 5                    | 16QAM      | 12      | 7         | 20.79                 | 20.92                    | 20.85                  |                     |          |  |
| 5                    | 16QAM      | 12      | 13        | 20.75                 | 20.87                    | 20.74                  | 22                  | 2        |  |
| 5                    | 16QAM      | 25      | 0         | 20.70                 | 20.77                    | 20.69                  |                     |          |  |
| 5                    | 64QAM      | 1       | 0         | 20.98                 | 21.06                    | 21.04                  |                     |          |  |
| 5                    | 64QAM      | 1       | 12        | 20.92                 | 20.93                    | 20.86                  | 22                  | 2        |  |
| 5                    | 64QAM      | 1       | 24        | 20.92                 | 21.05                    | 20.89                  |                     |          |  |
| 5                    | 64QAM      | 12      | 0         | 19.68                 | 19.75                    | 19.68                  |                     |          |  |
| 5                    | 64QAM      | 12      | 7         | 19.50                 | 19.69                    | 19.52                  | 21                  | 3        |  |
| 5                    | 64QAM      | 12      | 13        | 19.69                 | 19.76                    | 19.56                  |                     |          |  |
| 5                    | 64QAM      | 25      | 0         | 19.84                 | 19.91                    | 19.69                  |                     |          |  |
| 5                    | 256QAM     | 1       | 0         | 17.89                 | 17.79                    | 17.85                  | 19                  | 5        |  |
| 5                    | 256QAM     | 1       | 12        | 17.59                 | 17.70                    | 17.70                  |                     |          |  |
| 5                    | 256QAM     | 1       | 24        | 17.67                 | 17.79                    | 17.70                  |                     |          |  |
| 5                    | 256QAM     | 12      | 0         | 17.80                 | 17.83                    | 17.77                  | 19                  | 5        |  |
| 5                    | 256QAM     | 12      | 7         | 17.64                 | 17.82                    | 17.70                  |                     |          |  |
| 5                    | 256QAM     | 12      | 13        | 17.57                 | 17.81                    | 17.70                  |                     |          |  |
| 5                    | 256QAM     | 25      | 0         | 17.53                 | 17.78                    | 17.64                  |                     |          |  |

## Reduced Power Mode for DS12 Standalone

| GSM850 Ant0 DS12 Standalone        |  |                           |       |        |                     |                           |        |        |                     |
|------------------------------------|--|---------------------------|-------|--------|---------------------|---------------------------|--------|--------|---------------------|
| GSM850                             |  | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |        |        | Tune-up Limit (dBm) |
| TX Channel                         |  | 128                       | 189   | 251    |                     | 128                       | 189    | 251    |                     |
| Frequency (MHz)                    |  | 824.2                     | 836.4 | 848.8  |                     | 824.2                     | 836.4  | 848.8  |                     |
| GSM 1 Tx slot                      |  | 32.30                     | 32.53 | 32.44  | 33.50               | 23.30                     | 23.53  | 23.44  | 24.50               |
| GPRS 1 Tx slot                     |  | 32.31                     | 32.55 | 32.46  | 33.50               | 23.31                     | 23.55  | 23.46  | 24.50               |
| GPRS 2 Tx slots                    |  | 30.72                     | 30.88 | 30.75  | 32.00               | 24.72                     | 24.88  | 24.75  | 26.00               |
| GPRS 3 Tx slots                    |  | 28.67                     | 28.78 | 28.74  | 30.00               | 24.41                     | 24.52  | 24.48  | 25.74               |
| GPRS 4 Tx slots                    |  | 28.61                     | 28.66 | 28.71  | 27.50               | 23.61                     | 23.66  | 23.71  | 24.50               |
| EDGE 1 Tx slot                     |  | 26.14                     | 26.24 | 26.17  | 27.00               | 17.14                     | 17.24  | 17.17  | 18.00               |
| EDGE 2 Tx slots                    |  | 24.94                     | 25.10 | 25.00  | 26.00               | 18.94                     | 19.10  | 19.00  | 20.00               |
| EDGE 3 Tx slots                    |  | 22.92                     | 22.76 | 22.91  | 24.00               | 18.66                     | 18.50  | 18.65  | 19.74               |
| EDGE 4 Tx slots                    |  | 20.81                     | 20.76 | 20.47  | 22.00               | 17.81                     | 17.76  | 17.47  | 19.00               |
| GSM1900 Ant0 DS12 Standalone       |  |                           |       |        |                     |                           |        |        |                     |
| GSM1900                            |  | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |        |        | Tune-up Limit (dBm) |
| TX Channel                         |  | 512                       | 661   | 810    |                     | 512                       | 661    | 810    |                     |
| Frequency (MHz)                    |  | 1695.2                    | 1695  | 1699.6 |                     | 1695.2                    | 1695   | 1699.6 |                     |
| GSM 1 Tx slot                      |  | 29.95                     | 30.02 | 29.91  | 30.50               | 20.95                     | 21.02  | 20.91  | 21.50               |
| GPRS 1 Tx slot                     |  | 30.04                     | 30.06 | 29.68  | 30.50               | 21.04                     | 21.06  | 20.68  | 21.50               |
| GPRS 2 Tx slots                    |  | 28.44                     | 28.52 | 28.17  | 29.50               | 22.44                     | 22.52  | 22.17  | 23.50               |
| GPRS 3 Tx slots                    |  | 26.42                     | 26.55 | 26.22  | 27.50               | 22.16                     | 22.29  | 21.96  | 23.24               |
| GPRS 4 Tx slots                    |  | 24.23                     | 24.28 | 23.95  | 25.00               | 21.23                     | 21.28  | 20.95  | 22.00               |
| EDGE 1 Tx slot                     |  | 25.67                     | 25.85 | 25.47  | 27.00               | 16.67                     | 16.85  | 16.47  | 18.00               |
| EDGE 2 Tx slots                    |  | 24.46                     | 24.52 | 24.17  | 25.50               | 18.46                     | 18.52  | 18.17  | 19.50               |
| EDGE 3 Tx slots                    |  | 22.44                     | 22.44 | 22.00  | 23.50               | 18.18                     | 18.18  | 17.74  | 19.24               |
| EDGE 4 Tx slots                    |  | 20.22                     | 20.31 | 20.01  | 21.50               | 17.22                     | 17.31  | 17.01  | 18.50               |
| WCDMA II Ant0 DS12 Standalone      |  |                           |       |        |                     |                           |        |        |                     |
| Band                               |  | WCDMA II                  |       |        | Tune-up Limit (dBm) | WCDMA IV                  |        |        | Tune-up Limit (dBm) |
| TX Channel                         |  | 9262                      | 9400  | 9538   |                     | 1312                      | 1413   | 1513   |                     |
| Rx Channel                         |  | 9662                      | 9800  | 9938   |                     | 1537                      | 1638   | 1738   |                     |
| Frequency (MHz)                    |  | 1852.4                    | 1880  | 1907.6 |                     | 1712.4                    | 1732.6 | 1752.6 |                     |
| 3GPP Rel 99 AMR 12.2Kbps           |  | 22.80                     | 22.82 | 22.61  | 24.00               | 22.91                     | 23.02  | 22.93  | 24.00               |
| 3GPP Rel 99 RMC 12.2Kbps           |  | 22.95                     | 22.99 | 22.77  | 24.00               | 23.02                     | 23.17  | 23.06  | 24.00               |
| 3GPP Rel 6 HSDPA Subtest-1         |  | 21.86                     | 21.97 | 21.85  | 23.00               | 21.69                     | 21.82  | 21.70  | 23.00               |
| 3GPP Rel 6 HSDPA Subtest-2         |  | 21.87                     | 22.02 | 21.96  | 23.00               | 21.75                     | 21.89  | 21.81  | 23.00               |
| 3GPP Rel 6 HSDPA Subtest-3         |  | 21.46                     | 21.45 | 21.55  | 22.50               | 21.34                     | 21.35  | 21.35  | 22.50               |
| 3GPP Rel 6 HSDPA Subtest-4         |  | 21.41                     | 21.51 | 21.51  | 22.50               | 21.30                     | 21.38  | 21.42  | 22.50               |
| 3GPP Rel 6 DC-HSDPA Subtest-1      |  | 22.01                     | 22.00 | 21.76  | 23.00               | 21.83                     | 21.89  | 21.62  | 23.00               |
| 3GPP Rel 6 DC-HSDPA Subtest-2      |  | 21.81                     | 22.06 | 21.88  | 23.00               | 21.72                     | 21.89  | 21.76  | 23.00               |
| 3GPP Rel 6 DC-HSDPA Subtest-3      |  | 21.52                     | 21.54 | 21.46  | 22.50               | 21.37                     | 21.42  | 21.37  | 22.50               |
| 3GPP Rel 6 DC-HSDPA Subtest-4      |  | 21.37                     | 21.58 | 21.53  | 22.50               | 21.18                     | 21.47  | 21.40  | 22.50               |
| 3GPP Rel 6 HSUPA Subtest-1         |  | 21.81                     | 21.98 | 21.88  | 23.00               | 21.67                     | 21.81  | 21.76  | 23.00               |
| 3GPP Rel 6 HSUPA Subtest-2         |  | 20.01                     | 20.07 | 19.97  | 21.00               | 19.92                     | 19.88  | 19.88  | 21.00               |
| 3GPP Rel 6 HSUPA Subtest-3         |  | 20.90                     | 20.99 | 20.87  | 22.00               | 20.78                     | 20.85  | 20.69  | 22.00               |
| 3GPP Rel 6 HSUPA Subtest-4         |  | 20.01                     | 19.94 | 19.82  | 21.00               | 19.80                     | 19.65  | 19.70  | 21.00               |
| 3GPP Rel 6 HSUPA Subtest-5         |  | 21.93                     | 21.91 | 22.03  | 23.00               | 21.79                     | 21.78  | 21.92  | 23.00               |
| 3GPP Rel 7 HSPA+ (16QAM) Subtest-1 |  | 19.43                     | 19.52 | 19.44  | 20.50               | 19.29                     | 19.36  | 19.29  | 20.50               |
| WCDMA V Ant0 DS12 Standalone       |  |                           |       |        |                     |                           |        |        |                     |
| Band                               |  | WCDMA V                   |       |        | Tune-up Limit (dBm) | WCDMA V                   |        |        | Tune-up Limit (dBm) |
| TX Channel                         |  | 4132                      | 4182  | 4233   |                     | 4132                      | 4182   | 4233   |                     |
| Rx Channel                         |  | 4357                      | 4407  | 4458   |                     | 4357                      | 4407   | 4458   |                     |
| Frequency (MHz)                    |  | 826.4                     | 836.4 | 846.6  |                     | 826.4                     | 836.4  | 846.6  |                     |
| 3GPP Rel 99 AMR 12.2Kbps           |  | 22.80                     | 22.86 | 23.12  | 23.10               | 24.00                     | 22.86  | 23.12  | 23.10               |
| 3GPP Rel 99 RMC 12.2Kbps           |  | 22.95                     | 22.99 | 22.77  | 24.00               | 23.02                     | 23.17  | 23.06  | 24.00               |
| 3GPP Rel 6 HSDPA Subtest-1         |  | 21.86                     | 21.97 | 21.85  | 23.00               | 21.69                     | 21.82  | 21.70  | 23.00               |
| 3GPP Rel 6 HSDPA Subtest-2         |  | 21.87                     | 22.02 | 21.96  | 23.00               | 21.75                     | 21.89  | 21.81  | 23.00               |
| 3GPP Rel 6 HSDPA Subtest-3         |  | 21.46                     | 21.45 | 21.55  | 22.50               | 21.34                     | 21.35  | 21.35  | 22.50               |
| 3GPP Rel 6 HSDPA Subtest-4         |  | 21.41                     | 21.51 | 21.51  | 22.50               | 21.30                     | 21.38  | 21.42  | 22.50               |
| 3GPP Rel 6 DC-HSDPA Subtest-1      |  | 22.01                     | 22.00 | 21.76  | 23.00               | 21.83                     | 21.89  | 21.62  | 23.00               |
| 3GPP Rel 6 DC-HSDPA Subtest-2      |  | 21.81                     | 22.06 | 21.88  | 23.00               | 21.72                     | 21.89  | 21.76  | 23.00               |
| 3GPP Rel 6 DC-HSDPA Subtest-3      |  | 21.52                     | 21.54 | 21.46  | 22.50               | 21.37                     | 21.42  | 21.37  | 22.50               |
| 3GPP Rel 6 DC-HSDPA Subtest-4      |  | 21.37                     | 21.58 | 21.53  | 22.50               | 21.18                     | 21.47  | 21.40  | 22.50               |
| 3GPP Rel 6 HSUPA Subtest-1         |  | 21.81                     | 21.98 | 21.88  | 23.00               | 21.67                     | 21.81  | 21.76  | 23.00               |
| 3GPP Rel 6 HSUPA Subtest-2         |  | 20.01                     | 20.07 | 19.97  | 21.00               | 19.92                     | 19.88  | 19.88  | 21.00               |
| 3GPP Rel 6 HSUPA Subtest-3         |  | 20.90                     | 20.99 | 20.87  | 22.00               | 20.78                     | 20.85  | 20.69  | 22.00               |
| 3GPP Rel 6 HSUPA Subtest-4         |  | 20.01                     | 19.94 | 19.82  | 21.00               | 19.80                     | 19.65  | 19.70  | 21.00               |
| 3GPP Rel 6 HSUPA Subtest-5         |  | 21.93                     | 21.91 | 22.03  | 23.00               | 21.79                     | 21.78  | 21.92  | 23.00               |
| 3GPP Rel 7 HSPA+ (16QAM) Subtest-1 |  | 19.43                     | 19.52 | 19.44  | 20.50               | 19.29                     | 19.36  | 19.29  | 20.50               |



| Band 2 Ant0 DSI2 Standalone |            |         |           |                     |                     |                      |                    |          |    |   |
|-----------------------------|------------|---------|-----------|---------------------|---------------------|----------------------|--------------------|----------|----|---|
| BW (MHz)                    | Modulation | RB Size | RB Offset | Power Max Ch./Freq. | Power Low Ch./Freq. | Power High Ch./Freq. | Turn-up Init. (dB) | MPE (dB) |    |   |
| Channel                     |            |         |           |                     |                     |                      |                    |          |    |   |
| Frequency (MHz)             |            |         |           |                     |                     |                      |                    |          |    |   |
| 20                          | QPSK       | 1       | 0         | 22.23               | 22.27               | 22.24                |                    |          | 24 | 0 |
| 20                          | QPSK       | 1       | 49        | 22.18               | 22.19               | 22.18                |                    |          |    |   |
| 20                          | QPSK       | 1       | 99        | 22.10               | 22.22               | 22.18                |                    |          |    |   |
| 20                          | QPSK       | 50      | 0         | 21.35               | 21.36               | 21.33                |                    |          |    |   |
| 20                          | QPSK       | 24      | 0         | 21.23               | 21.26               | 21.23                |                    |          | 23 | 1 |
| 20                          | QPSK       | 50      | 50        | 21.19               | 21.24               | 21.28                |                    |          |    |   |
| 20                          | 16QAM      | 1       | 49        | 21.31               | 21.48               | 21.32                |                    |          | 23 | 1 |
| 20                          | 16QAM      | 1       | 99        | 21.24               | 21.49               | 21.34                |                    |          |    |   |
| 20                          | 16QAM      | 50      | 0         | 20.39               | 20.45               | 20.39                |                    |          |    |   |
| 20                          | 16QAM      | 50      | 24        | 20.33               | 20.35               | 20.28                |                    |          | 22 | 2 |
| 20                          | 16QAM      | 50      | 50        | 20.32               | 20.41               | 20.30                |                    |          |    |   |
| 20                          | 16QAM      | 100     | 0         | 20.29               | 20.38               | 20.21                |                    |          |    |   |
| 20                          | 64QAM      | 1       | 0         | 20.58               | 20.65               | 20.54                |                    |          |    |   |
| 20                          | 64QAM      | 1       | 49        | 20.46               | 20.59               | 20.46                |                    |          | 22 | 2 |
| 20                          | 64QAM      | 50      | 0         | 20.53               | 20.53               | 20.48                |                    |          |    |   |
| 20                          | 64QAM      | 50      | 0         | 19.35               | 19.44               | 19.39                |                    |          |    |   |
| 20                          | 64QAM      | 1       | 99        | 19.22               | 19.31               | 19.26                |                    |          | 21 | 3 |
| 20                          | 64QAM      | 50      | 25        | 19.27               | 19.37               | 19.24                |                    |          |    |   |
| 20                          | 64QAM      | 100     | 0         | 19.41               | 19.52               | 19.39                |                    |          |    |   |
| 20                          | 256QAM     | 1       | 0         | 17.41               | 17.48               | 17.43                |                    |          |    |   |
| 20                          | 256QAM     | 1       | 49        | 17.22               | 17.32               | 17.25                |                    |          | 19 | 5 |
| 20                          | 256QAM     | 1       | 99        | 17.16               | 17.35               | 17.25                |                    |          |    |   |
| 20                          | 256QAM     | 50      | 0         | 17.32               | 17.39               | 17.32                |                    |          |    |   |
| 20                          | 256QAM     | 24      | 0         | 17.15               | 17.20               | 17.21                |                    |          | 19 | 5 |
| 20                          | 256QAM     | 50      | 50        | 17.11               | 17.19               | 17.21                |                    |          |    |   |
| 20                          | 256QAM     | 100     | 0         | 17.17               | 17.23               | 17.20                |                    |          |    |   |
| Channel                     |            |         |           |                     |                     |                      |                    |          |    |   |
| Frequency (MHz)             |            |         |           |                     |                     |                      |                    |          |    |   |
| 15                          | QPSK       | 1       | 0         | 18.07               | 18.00               | 18.03                |                    |          |    |   |
| 15                          | QPSK       | 1       | 37        | 22.12               | 22.21               | 22.18                |                    |          | 24 | 0 |
| 15                          | QPSK       | 1       | 74        | 22.01               | 22.13               | 22.08                |                    |          |    |   |
| 15                          | QPSK       | 36      | 0         | 21.28               | 21.29               | 21.27                |                    |          |    |   |
| 15                          | QPSK       | 36      | 20        | 21.07               | 21.14               | 21.04                |                    |          | 23 | 1 |
| 15                          | QPSK       | 36      | 36        | 21.07               | 21.16               | 21.15                |                    |          |    |   |
| 15                          | QPSK       | 75      | 0         | 21.56               | 21.48               | 21.35                |                    |          |    |   |
| 15                          | 16QAM      | 1       | 0         | 21.34               | 21.47               | 21.35                |                    |          |    |   |
| 15                          | 16QAM      | 1       | 37        | 21.16               | 21.38               | 21.18                |                    |          | 23 | 1 |
| 15                          | 16QAM      | 1       | 49        | 21.14               | 21.46               | 21.27                |                    |          |    |   |
| 15                          | 16QAM      | 36      | 0         | 20.33               | 20.30               | 20.19                |                    |          |    |   |
| 15                          | 16QAM      | 36      | 20        | 20.24               | 20.21               | 20.14                |                    |          | 22 | 2 |
| 15                          | 16QAM      | 36      | 36        | 20.27               | 20.32               | 20.28                |                    |          |    |   |
| 15                          | 16QAM      | 75      | 0         | 20.22               | 20.25               | 20.16                |                    |          |    |   |
| 15                          | 64QAM      | 1       | 0         | 20.51               | 20.59               | 20.40                |                    |          |    |   |
| 15                          | 64QAM      | 37      | 0         | 20.37               | 20.36               | 20.32                |                    |          | 22 | 2 |
| 15                          | 64QAM      | 1       | 74        | 20.46               | 20.35               | 20.28                |                    |          |    |   |
| 15                          | 64QAM      | 36      | 0         | 19.25               | 19.34               | 19.29                |                    |          |    |   |
| 15                          | 64QAM      | 36      | 20        | 19.12               | 19.35               | 19.23                |                    |          | 21 | 3 |
| 15                          | 64QAM      | 36      | 36        | 19.22               | 19.25               | 19.15                |                    |          |    |   |
| 15                          | 64QAM      | 75      | 0         | 19.57               | 19.42               | 19.27                |                    |          |    |   |
| 15                          | 256QAM     | 1       | 49        | 17.28               | 17.36               | 17.27                |                    |          |    |   |
| 15                          | 256QAM     | 1       | 37        | 17.16               | 17.17               | 17.22                |                    |          | 19 | 5 |
| 15                          | 256QAM     | 1       | 74        | 17.08               | 17.30               | 17.14                |                    |          |    |   |
| 15                          | 256QAM     | 36      | 0         | 17.22               | 17.29               | 17.25                |                    |          |    |   |
| 15                          | 256QAM     | 36      | 20        | 17.02               | 17.12               | 17.14                |                    |          | 19 | 5 |
| 15                          | 256QAM     | 36      | 36        | 17.03               | 17.03               | 17.05                |                    |          |    |   |
| 15                          | 256QAM     | 75      | 0         | 17.11               | 17.17               | 17.20                |                    |          |    |   |
| Channel                     |            |         |           |                     |                     |                      |                    |          |    |   |
| Frequency (MHz)             |            |         |           |                     |                     |                      |                    |          |    |   |
| 10                          | QPSK       | 1       | 0         | 22.12               | 22.17               | 22.14                |                    |          |    |   |
| 10                          | QPSK       | 1       | 25        | 22.01               | 22.03               | 22.08                |                    |          | 24 | 0 |
| 10                          | QPSK       | 1       | 49        | 22.03               | 22.10               | 22.08                |                    |          |    |   |
| 10                          | QPSK       | 1       | 99        | 21.97               | 22.08               | 22.01                |                    |          |    |   |
| 10                          | QPSK       | 25      | 12        | 21.17               | 21.16               | 21.08                |                    |          | 23 | 1 |
| 10                          | QPSK       | 25      | 25        | 21.05               | 21.16               | 21.19                |                    |          |    |   |
| 10                          | QPSK       | 100     | 0         | 21.46               | 21.48               | 21.45                |                    |          |    |   |
| 10                          | 16QAM      | 1       | 0         | 21.27               | 21.54               | 21.28                |                    |          | 23 | 1 |
| 10                          | 16QAM      | 1       | 25        | 21.16               | 21.40               | 21.18                |                    |          |    |   |
| 10                          | 16QAM      | 1       | 49        | 21.14               | 21.38               | 21.15                |                    |          |    |   |
| 10                          | 16QAM      | 25      | 0         | 20.24               | 20.37               | 20.19                |                    |          |    |   |
| 10                          | 16QAM      | 25      | 12        | 20.24               | 20.22               | 20.14                |                    |          | 22 | 2 |
| 10                          | 16QAM      | 25      | 25        | 20.17               | 20.27               | 20.25                |                    |          |    |   |
| 10                          | 16QAM      | 50      | 0         | 20.24               | 20.30               | 20.13                |                    |          |    |   |
| 10                          | 64QAM      | 1       | 0         | 20.48               | 20.60               | 20.42                |                    |          | 22 | 2 |
| 10                          | 64QAM      | 1       | 25        | 20.33               | 20.43               | 20.44                |                    |          |    |   |
| 10                          | 64QAM      | 1       | 49        | 20.39               | 20.44               | 20.40                |                    |          |    |   |
| 10                          | 64QAM      | 25      | 0         | 19.21               | 19.37               | 19.30                |                    |          |    |   |
| 10                          | 64QAM      | 25      | 12        | 19.11               | 19.27               | 19.19                |                    |          | 21 | 3 |
| 10                          | 64QAM      | 25      | 25        | 19.21               | 19.24               | 19.16                |                    |          |    |   |
| 10                          | 64QAM      | 50      | 0         | 19.32               | 19.41               | 19.30                |                    |          |    |   |
| 10                          | 256QAM     | 1       | 49        | 17.36               | 17.38               | 17.38                |                    |          |    |   |
| 10                          | 256QAM     | 1       | 25        | 17.14               | 17.16               | 17.18                |                    |          | 19 | 5 |
| 10                          | 256QAM     | 1       | 49        | 17.11               | 17.21               | 17.13                |                    |          |    |   |
| 10                          | 256QAM     | 25      | 0         | 17.22               | 17.26               | 17.25                |                    |          |    |   |
| 10                          | 256QAM     | 25      | 12        | 17.07               | 17.08               | 17.18                |                    |          | 19 | 5 |
| 10                          | 256QAM     | 25      | 25        | 17.09               | 17.08               | 17.06                |                    |          |    |   |
| 10                          | 256QAM     | 50      | 0         | 17.11               | 17.17               | 17.20                |                    |          |    |   |
| Channel                     |            |         |           |                     |                     |                      |                    |          |    |   |
| Frequency (MHz)             |            |         |           |                     |                     |                      |                    |          |    |   |
| 5                           | QPSK       | 1       | 0         | 22.11               | 22.10               | 22.13                |                    |          |    |   |
| 5                           | QPSK       | 1       | 12        | 22.04               | 22.02               | 22.03                |                    |          | 24 | 0 |
| 5                           | QPSK       | 1       | 24        | 22.07               | 22.07               | 22.02                |                    |          |    |   |
| 5                           | QPSK       | 12      | 0         | 21.13               | 21.23               | 21.22                |                    |          |    |   |
| 5                           | QPSK       | 12      | 7         | 21.16               | 21.14               | 21.04                |                    |          | 23 | 1 |
| 5                           | QPSK       | 12      | 13        | 21.12               | 21.13               | 21.18                |                    |          |    |   |
| 5                           | QPSK       | 25      | 0         | 21.13               | 21.38               | 21.13                |                    |          |    |   |
| 5                           | 16QAM      | 1       | 0         | 21.34               | 21.48               | 21.33                |                    |          | 23 | 1 |
| 5                           | 16QAM      | 1       | 12        | 21.21               | 21.36               | 21.18                |                    |          |    |   |
| 5                           | 16QAM      | 1       | 24        | 21.08               | 21.37               | 21.05                |                    |          |    |   |
| 5                           | 16QAM      | 12      | 0         | 20.32               | 20.31               | 20.28                |                    |          |    |   |
| 5                           | 16QAM      | 12      | 7         | 20.25               | 20.25               | 20.16                |                    |          | 22 | 2 |
| 5                           | 16QAM      | 12      | 13        | 20.21               | 20.35               | 20.24                |                    |          |    |   |
| 5                           | 16QAM      | 25      | 0         | 20.13               | 20.27               | 20.15                |                    |          |    |   |
| 5                           | 64QAM      | 1       | 0         | 20.47               | 20.58               | 20.47                |                    |          | 22 | 2 |
| 5                           | 64QAM      | 1       | 12        | 20.41               | 20.38               | 20.30                |                    |          |    |   |
| 5                           | 64QAM      | 1       | 24        | 20.43               | 20.39               | 20.43                |                    |          |    |   |
| 5                           | 64QAM      | 12      | 0         | 19.26               | 19.30               | 19.24                |                    |          |    |   |
| 5                           | 64QAM      | 12      | 7         | 19.09               | 19.15               | 19.14                |                    |          | 21 | 3 |
| 5                           | 64QAM      | 12      | 13        | 19.17               | 19.23               | 19.17                |                    |          |    |   |
| 5                           | 64QAM      | 25      | 0         | 19.26               | 19.48               | 19.34                |                    |          |    |   |
| 5                           | 256QAM     | 1       | 0         | 17.31               | 17.39               | 17.34                |                    |          |    |   |
| 5                           | 256QAM     | 1       | 12        | 17.09               | 17.16               | 17.25                |                    |          | 19 | 5 |
| 5                           | 256QAM     | 1       | 24        | 17.11               | 17.23               | 17.16                |                    |          |    |   |
| 5                           | 256QAM     | 12      | 0         | 17.25               | 17.18               | 17.17                |                    |          |    |   |
| 5                           | 256QAM     | 12      | 7         | 17.00               | 17.05               | 17.09                |                    |          | 19 | 5 |
| 5                           | 256QAM     | 12      | 13        | 17.01               | 17.09               | 17.15                |                    |          |    |   |
| 5                           | 256QAM     | 25      | 0         | 17.02               | 17.18               | 17.05                |                    |          |    |   |
| Channel                     |            |         |           |                     |                     |                      |                    |          |    |   |
| Frequency (MHz)             |            |         |           |                     |                     |                      |                    |          |    |   |
| 3                           | QPSK       | 1       | 0         | 22.12               | 22.17               | 22.15                |                    |          |    |   |
| 3                           | QPSK       | 1       | 8         | 22.09               | 22.12               | 22.05                |                    |          | 24 | 0 |
| 3                           | QPSK       | 1       | 14        | 22.01               | 22.09               | 22.02                |                    |          |    |   |
| 3                           | QPSK       | 3       | 0         | 21.05               | 21.20               | 21.07                |                    |          |    |   |
| 3                           | QPSK       | 8       | 4         | 21.15               | 21.12               | 21.08                |                    |          | 23 | 1 |
| 3                           | QPSK       | 8       | 7         | 21.13               | 21.12               | 21.18                |                    |          |    |   |
| 3                           | QPSK       | 15      | 0         | 21.38               | 21.47               | 21.37                |                    |          |    |   |
| 3                           | 16QAM      | 1       | 0         | 21.35               | 21.48               | 21.32                |                    |          | 23 | 1 |
| 3                           | 16QAM      | 1       | 8         | 21.27               | 21.33               | 21.21                |                    |          |    |   |
| 3                           | 16QAM      | 1       | 14        | 21.13               | 21.44               | 21.34                |                    |          |    |   |
| 3                           | 16QAM      | 3       | 0         | 20.27               | 20.31               | 20.23                |                    |          | 22 | 2 |
| 3                           | 16QAM      | 3       | 4         | 20.20               | 20.23               | 20.19                |                    |          |    |   |
| 3                           | 16QAM      | 3       | 7         | 20.29               | 20.27               | 20.23                |                    |          |    |   |
| 3                           | 16QAM      | 15      | 0         | 20.23               | 20.26               | 20.11                |                    |          |    |   |
| 3                           | 64QAM      | 1       | 0         | 20.47               | 20.54               | 20.47                |                    |          | 22 | 2 |
| 3                           | 64QAM      | 1       | 8         | 20.36               | 20.43               | 20.35                |                    |          |    |   |
| 3                           | 64QAM      | 1       | 14        | 20.44               | 20.42               | 20.37                |                    |          |    |   |
| 3                           | 64QAM      | 3       | 0         | 19.27               | 19.36               | 19.27                |                    |          | 21 | 3 |
| 3                           | 64QAM      | 3       | 4         | 19.13               | 19.19               | 19.02                |                    |          |    |   |
| 3                           | 64QAM      | 3       | 7         | 19.13               | 19.25               | 19.20                |                    |          |    |   |
| 3                           | 256QAM     | 1       | 0         | 17.34               | 17.32               | 17.33                |                    |          |    |   |
| 3                           | 256QAM     | 1       | 8         | 17.14               | 17.14               | 17.21                |                    |          | 19 | 5 |
| 3                           | 256QAM     | 1       | 14        | 17.04               | 17.29               | 17.17                |                    |          |    |   |
| 3                           | 256QAM     | 3       | 0         | 17.23               | 17.27               | 17.22                |                    |          |    |   |
| 3                           | 256QAM     | 8       | 4         | 17.09               | 17.05               | 17.05                |                    |          | 19 | 5 |
| 3                           | 256QAM     | 8       | 7         | 17.02               | 17.12               | 17.04                |                    |          |    |   |
| 3                           | 256QAM     | 15      | 0         | 17.10               | 17.14               | 17.07                |                    |          |    |   |
| Channel                     |            |         |           |                     |                     |                      |                    |          |    |   |
| Frequency (MHz)             |            |         |           |                     |                     |                      |                    |          |    |   |
| 1.4                         | QPSK       | 1       | 0         | 22.21               | 22.25               | 22.20                |                    |          |    |   |
| 1.4                         | QPSK       | 1       | 3         | 22.01               | 22.10               | 22.05                |                    |          | 24 | 0 |
| 1.4                         | QPSK       | 1       | 5         | 22.09               | 22.11               | 22.06                |                    |          |    |   |
| 1.4                         | QPSK       | 1       | 10        | 22.05               | 22.06               | 22.00                |                    |          |    |   |
| 1.4                         | QPSK       | 3       | 0         | 22.03               | 22.05               | 22.03                |                    |          |    |   |
| 1.4                         | QPSK       | 3       | 3         | 21.98               | 21.98               | 21.93                |                    |          | 20 |   |
| 1.4                         | 16QAM      | 1       | 0         | 21.28               | 21.48               | 21.30                |                    |          | 23 | 1 |
| 1.4                         | 16QAM      | 1       | 3         | 21.18               | 21.37               | 21.16                |                    |          |    |   |
| 1.4                         | 16QAM      | 1       | 5         | 21.26               | 21.38               | 21.28                |                    |          |    |   |
| 1.4                         | 16QAM      | 3       | 0         | 21.28               | 21.38               | 21.31                |                    |          |    |   |
| 1.4                         | 16QAM      | 3       | 3         | 21.08               | 21.37               | 21.08                |                    |          |    |   |
| 1.4                         | 16QAM      | 6       | 0         | 20.21               | 20.23               | 20.09                |                    |          | 22 | 2 |
| 1.4                         | 16QAM      | 6       | 3         | 20.44               | 20.52               | 20.41                |                    |          |    |   |
| 1.4                         | 16QAM      | 6       | 5         | 20.42               | 20.48               | 20.37                |                    |          |    |   |
| 1.                          |            |         |           |                     |                     |                      |                    |          |    |   |

| Band 12 AntD DS12 Standalone |            |         |           |                                 |                                 |                                 |                                 |                   |           |       |       |       |
|------------------------------|------------|---------|-----------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------|-----------|-------|-------|-------|
| Bit (Mbps)                   | Modulation | RS Size | RS Offset | Power Spectral Density (dBm/Hz) | Power Spectral Density (dBm/Hz) | Power Spectral Density (dBm/Hz) | Power Spectral Density (dBm/Hz) | Tuning Step (kHz) | MFR (MHz) |       |       |       |
| Channel                      |            |         |           |                                 |                                 |                                 |                                 |                   |           | 23605 | 23605 | 23370 |
| Frequency (MHz)              |            |         |           |                                 |                                 |                                 |                                 |                   |           |       |       |       |
| 5                            | QPSK       | 1       | 0         | 22.67                           | 22.71                           | 22.60                           | 22.60                           |                   |           |       |       |       |
| 5                            | QPSK       | 1       | 26        | 22.67                           | 22.68                           | 22.68                           | 22.68                           |                   | 24        | 0     |       |       |
| 5                            | QPSK       | 1       | 52        | 22.67                           | 22.67                           | 22.67                           | 22.67                           |                   |           |       |       |       |
| 5                            | QPSK       | 25      | 0         | 21.63                           | 21.63                           | 21.63                           | 21.63                           |                   |           |       |       |       |
| 5                            | QPSK       | 25      | 12        | 21.41                           | 21.41                           | 21.47                           | 21.73                           |                   | 23        | 1     |       |       |
| 5                            | QPSK       | 25      | 24        | 21.41                           | 21.47                           | 21.73                           | 21.73                           |                   |           |       |       |       |
| 5                            | QPSK       | 50      | 0         | 21.53                           | 21.55                           | 21.53                           | 21.53                           |                   |           |       |       |       |
| 5                            | QPSK       | 50      | 6         | 21.69                           | 21.85                           | 21.73                           | 21.73                           |                   | 23        | 1     |       |       |
| 5                            | QPSK       | 50      | 12        | 21.73                           | 21.73                           | 21.73                           | 21.73                           |                   |           |       |       |       |
| 5                            | QPSK       | 1       | 49        | 21.62                           | 21.76                           | 21.69                           | 21.69                           |                   |           |       |       |       |
| 5                            | QPSK       | 25      | 0         | 20.80                           | 20.65                           | 20.73                           | 20.73                           |                   |           |       |       |       |
| 5                            | QPSK       | 25      | 12        | 20.73                           | 20.73                           | 20.73                           | 20.73                           |                   | 24        | 2     |       |       |
| 5                            | QPSK       | 25      | 24        | 20.84                           | 20.68                           | 20.63                           | 20.63                           |                   |           |       |       |       |
| 5                            | QPSK       | 50      | 0         | 20.57                           | 20.67                           | 20.54                           | 20.54                           |                   |           |       |       |       |
| 5                            | QPSK       | 50      | 6         | 20.57                           | 20.67                           | 20.54                           | 20.54                           |                   | 24        | 2     |       |       |
| 5                            | QPSK       | 50      | 12        | 20.62                           | 20.59                           | 20.63                           | 20.63                           |                   |           |       |       |       |
| 5                            | QPSK       | 50      | 18        | 20.62                           | 20.59                           | 20.63                           | 20.63                           |                   |           |       |       |       |
| 5                            | QPSK       | 25      | 12        | 19.52                           | 19.63                           | 19.38                           | 19.38                           |                   | 21        | 3     |       |       |
| 5                            | QPSK       | 25      | 24        | 19.58                           | 19.68                           | 19.48                           | 19.48                           |                   |           |       |       |       |
| 5                            | QPSK       | 50      | 0         | 19.60                           | 19.60                           | 19.60                           | 19.60                           |                   |           |       |       |       |
| 5                            | QPSK       | 1       | 49        | 17.69                           | 17.77                           | 17.58                           | 17.58                           |                   |           |       |       |       |
| 5                            | QPSK       | 1       | 26        | 17.80                           | 17.77                           | 17.58                           | 17.58                           |                   | 19        | 5     |       |       |
| 5                            | QPSK       | 1       | 52        | 17.80                           | 17.77                           | 17.58                           | 17.58                           |                   |           |       |       |       |
| 5                            | QPSK       | 25      | 0         | 17.55                           | 17.71                           | 17.62                           | 17.62                           |                   |           |       |       |       |
| 5                            | QPSK       | 25      | 12        | 17.55                           | 17.69                           | 17.58                           | 17.58                           |                   | 19        | 5     |       |       |
| 5                            | QPSK       | 25      | 24        | 17.73                           | 17.71                           | 17.73                           | 17.73                           |                   |           |       |       |       |
| 5                            | QPSK       | 50      | 0         | 17.65                           | 17.62                           | 17.61                           | 17.61                           |                   |           |       |       |       |
| Channel                      |            |         |           |                                 |                                 |                                 |                                 |                   |           | 23605 | 23605 | 23370 |
| Frequency (MHz)              |            |         |           |                                 |                                 |                                 |                                 |                   |           |       |       |       |
| 5                            | QPSK       | 1       | 0         | 22.67                           | 22.68                           | 22.65                           | 22.65                           |                   |           |       |       |       |
| 5                            | QPSK       | 1       | 12        | 22.50                           | 22.48                           | 22.41                           | 22.41                           |                   | 24        | 0     |       |       |
| 5                            | QPSK       | 1       | 24        | 22.50                           | 22.47                           | 22.41                           | 22.41                           |                   |           |       |       |       |
| 5                            | QPSK       | 12      | 0         | 21.51                           | 21.53                           | 21.51                           | 21.51                           |                   |           |       |       |       |
| 5                            | QPSK       | 12      | 6         | 21.34                           | 21.42                           | 21.61                           | 21.61                           |                   | 23        | 1     |       |       |
| 5                            | QPSK       | 12      | 12        | 21.53                           | 21.53                           | 21.53                           | 21.53                           |                   |           |       |       |       |
| 5                            | QPSK       | 25      | 0         | 21.48                           | 21.37                           | 21.31                           | 21.31                           |                   |           |       |       |       |
| 5                            | QPSK       | 1       | 0         | 21.55                           | 21.71                           | 21.69                           | 21.69                           |                   |           |       |       |       |
| 5                            | QPSK       | 1       | 12        | 21.51                           | 21.66                           | 21.67                           | 21.67                           |                   |           |       |       |       |
| 5                            | QPSK       | 1       | 24        | 21.54                           | 21.65                           | 21.64                           | 21.64                           |                   | 24        | 1     |       |       |
| 5                            | QPSK       | 12      | 0         | 20.76                           | 20.59                           | 20.63                           | 20.63                           |                   |           |       |       |       |
| 5                            | QPSK       | 12      | 6         | 20.71                           | 20.71                           | 20.71                           | 20.71                           |                   | 24        | 2     |       |       |
| 5                            | QPSK       | 12      | 12        | 20.75                           | 20.75                           | 20.75                           | 20.75                           |                   |           |       |       |       |
| 5                            | QPSK       | 25      | 0         | 20.40                           | 20.26                           | 20.30                           | 20.30                           |                   |           |       |       |       |
| 5                            | QPSK       | 25      | 12        | 20.40                           | 20.30                           | 20.26                           | 20.26                           |                   | 24        | 2     |       |       |
| 5                            | QPSK       | 25      | 24        | 20.40                           | 20.30                           | 20.26                           | 20.26                           |                   |           |       |       |       |
| 5                            | QPSK       | 5       | 0         | 19.52                           | 19.52                           | 19.52                           | 19.52                           |                   |           |       |       |       |
| 5                            | QPSK       | 5       | 6         | 19.52                           | 19.52                           | 19.52                           | 19.52                           |                   |           |       |       |       |
| 5                            | QPSK       | 5       | 12        | 19.52                           | 19.52                           | 19.52                           | 19.52                           |                   |           |       |       |       |
| 5                            | QPSK       | 5       | 18        | 19.52                           | 19.52                           | 19.52                           | 19.52                           |                   |           |       |       |       |
| 5                            | QPSK       | 5       | 24        | 19.52                           | 19.52                           | 19.52                           | 19.52                           |                   |           |       |       |       |
| 5                            | QPSK       | 15      | 0         | 19.43                           | 19.38                           | 19.38                           | 19.38                           |                   | 21        | 3     |       |       |
| 5                            | QPSK       | 15      | 6         | 19.45                           | 19.45                           | 19.45                           | 19.45                           |                   |           |       |       |       |
| 5                            | QPSK       | 15      | 12        | 19.45                           | 19.52                           | 19.52                           | 19.52                           |                   |           |       |       |       |
| 5                            | QPSK       | 1       | 0         | 17.63                           | 17.63                           | 17.58                           | 17.58                           |                   | 19        | 5     |       |       |
| 5                            | QPSK       | 1       | 14        | 17.63                           | 17.61                           | 17.58                           | 17.58                           |                   |           |       |       |       |
| 5                            | QPSK       | 1       | 28        | 17.63                           | 17.45                           | 17.45                           | 17.45                           |                   | 19        | 5     |       |       |
| 5                            | QPSK       | 8       | 0         | 17.58                           | 17.58                           | 17.47                           | 17.47                           |                   |           |       |       |       |
| 5                            | QPSK       | 8       | 7         | 17.58                           | 17.58                           | 17.47                           | 17.47                           |                   | 19        | 5     |       |       |
| 5                            | QPSK       | 8       | 14        | 17.58                           | 17.58                           | 17.47                           | 17.47                           |                   |           |       |       |       |
| 5                            | QPSK       | 15      | 0         | 17.51                           | 17.51                           | 17.24                           | 17.24                           |                   |           |       |       |       |
| Channel                      |            |         |           |                                 |                                 |                                 |                                 |                   |           | 23607 | 23607 | 23373 |
| Frequency (MHz)              |            |         |           |                                 |                                 |                                 |                                 |                   |           |       |       |       |
| 14                           | QPSK       | 1       | 0         | 22.34                           | 22.49                           | 22.48                           | 22.48                           |                   |           |       |       |       |
| 14                           | QPSK       | 1       | 8         | 22.38                           | 22.48                           | 22.48                           | 22.48                           |                   |           |       |       |       |
| 14                           | QPSK       | 1       | 16        | 22.39                           | 22.52                           | 22.53                           | 22.53                           |                   | 24        | 0     |       |       |
| 14                           | QPSK       | 1       | 24        | 22.39                           | 22.52                           | 22.53                           | 22.53                           |                   |           |       |       |       |
| 14                           | QPSK       | 3       | 0         | 22.38                           | 22.30                           | 22.27                           | 22.27                           |                   |           |       |       |       |
| 14                           | QPSK       | 3       | 8         | 22.24                           | 22.48                           | 22.30                           | 22.30                           |                   | 23        | 1     |       |       |
| 14                           | QPSK       | 3       | 16        | 22.24                           | 22.48                           | 22.30                           | 22.30                           |                   |           |       |       |       |
| 14                           | QPSK       | 6       | 0         | 21.44                           | 21.71                           | 21.60                           | 21.60                           |                   |           |       |       |       |
| 14                           | QPSK       | 6       | 8         | 21.37                           | 21.55                           | 21.33                           | 21.33                           |                   | 23        | 1     |       |       |
| 14                           | QPSK       | 6       | 16        | 21.28                           | 21.53                           | 21.33                           | 21.33                           |                   |           |       |       |       |
| 14                           | QPSK       | 6       | 24        | 21.41                           | 21.62                           | 21.46                           | 21.46                           |                   |           |       |       |       |
| 14                           | QPSK       | 3       | 0         | 21.30                           | 21.54                           | 21.21                           | 21.21                           |                   |           |       |       |       |
| 14                           | QPSK       | 3       | 8         | 21.45                           | 21.47                           | 21.33                           | 21.33                           |                   | 22        | 2     |       |       |
| 14                           | QPSK       | 3       | 16        | 20.45                           | 20.42                           | 20.24                           | 20.24                           |                   |           |       |       |       |
| 14                           | QPSK       | 3       | 24        | 20.58                           | 20.39                           | 20.25                           | 20.25                           |                   |           |       |       |       |
| 14                           | QPSK       | 6       | 0         | 20.48                           | 20.48                           | 20.38                           | 20.38                           |                   |           |       |       |       |
| 14                           | QPSK       | 6       | 8         | 20.62                           | 20.70                           | 20.55                           | 20.55                           |                   | 22        | 2     |       |       |
| 14                           | QPSK       | 6       | 16        | 20.52                           | 20.49                           | 20.35                           | 20.35                           |                   |           |       |       |       |
| 14                           | QPSK       | 6       | 24        | 20.49                           | 20.35                           | 20.35                           | 20.35                           |                   |           |       |       |       |
| 14                           | QPSK       | 3       | 0         | 20.56                           | 20.44                           | 20.44                           | 20.44                           |                   |           |       |       |       |
| 14                           | QPSK       | 3       | 8         | 19.52                           | 19.68                           | 19.41                           | 19.41                           |                   | 21        | 3     |       |       |
| 14                           | QPSK       | 3       | 16        | 19.46                           | 19.48                           | 19.48                           | 19.48                           |                   |           |       |       |       |
| 14                           | QPSK       | 6       | 0         | 17.27                           | 17.50                           | 17.50                           | 17.50                           |                   |           |       |       |       |
| 14                           | QPSK       | 6       | 8         | 17.31                           | 17.42                           | 17.28                           | 17.28                           |                   | 17        | 5     |       |       |
| 14                           | QPSK       | 6       | 16        | 17.28                           | 17.44                           | 17.41                           | 17.41                           |                   |           |       |       |       |
| 14                           | QPSK       | 3       | 0         | 17.25                           | 17.25                           | 17.31                           | 17.31                           |                   |           |       |       |       |
| 14                           | QPSK       | 3       | 8         | 17.23                           | 17.17                           | 17.23                           | 17.23                           |                   |           |       |       |       |
| 14                           | QPSK       | 3       | 16        | 17.23                           | 17.21                           | 17.25                           | 17.25                           |                   | 19        | 5     |       |       |

| Band 13 AntD DS12 Standalone |           |         |           |                        |                        |                        |                  |             |    |
|------------------------------|-----------|---------|-----------|------------------------|------------------------|------------------------|------------------|-------------|----|
| BS (MHz)                     | Multicast | RB Size | RB Offset | Power (dBm)<br>C/I (F) | Power (dBm)<br>C/I (F) | Power (dBm)<br>C/I (F) | Turn-up<br>(dBm) | MFR<br>(dB) |    |
| Channel                      |           |         |           |                        |                        |                        |                  |             |    |
| 10                           | FREQ1     | 1       | 0         |                        |                        | 22.38                  |                  |             |    |
| 10                           | DS18K     | 1       | 26        |                        |                        | 22.34                  |                  |             | 24 |
| 10                           | DS18K     | 2       | 42        |                        |                        | 22.38                  |                  |             |    |
| 10                           | DS18K     | 25      | 0         |                        |                        | 21.54                  |                  |             |    |
| 10                           | DS18K     | 26      | 12        |                        |                        | 21.48                  |                  |             | 23 |
| 10                           | DS18K     | 27      | 24        |                        |                        | 21.41                  |                  |             |    |
| 10                           | DS18K     | 50      | 0         |                        |                        | 21.35                  |                  |             |    |
| 10                           | DS18K     | 1       | 0         |                        |                        | 21.78                  |                  |             | 23 |
| 10                           | DS18K     | 1       | 49        |                        |                        | 21.56                  |                  |             |    |
| 10                           | DS18K     | 1       | 49        |                        |                        | 21.55                  |                  |             |    |
| 10                           | DS18K     | 25      | 0         |                        |                        | 20.67                  |                  |             |    |
| 10                           | DS18K     | 25      | 12        |                        |                        | 20.48                  |                  |             | 2  |
| 10                           | DS18K     | 25      | 24        |                        |                        | 20.45                  |                  |             |    |
| 10                           | DS18K     | 50      | 0         |                        |                        | 20.36                  |                  |             |    |
| 10                           | DS18K     | 50      | 12        |                        |                        | 20.08                  |                  |             |    |
| 10                           | DS18K     | 1       | 26        |                        |                        | 20.02                  |                  |             | 22 |
| 10                           | DS18K     | 1       | 49        |                        |                        | 20.67                  |                  |             |    |
| 10                           | DS18K     | 1       | 49        |                        |                        | 20.62                  |                  |             |    |
| 10                           | DS18K     | 25      | 12        |                        |                        | 19.54                  |                  |             | 21 |
| 10                           | DS18K     | 25      | 24        |                        |                        | 19.53                  |                  |             |    |
| 10                           | DS18K     | 50      | 0         |                        |                        | 18.41                  |                  |             |    |
| 10                           | DS18K     | 1       | 0         |                        |                        | 17.55                  |                  |             |    |
| 10                           | DS18K     | 1       | 26        |                        |                        | 17.49                  |                  |             | 19 |
| 10                           | DS18K     | 1       | 49        |                        |                        | 17.46                  |                  |             |    |
| 10                           | DS18K     | 25      | 0         |                        |                        | 17.45                  |                  |             |    |
| 10                           | DS18K     | 25      | 12        |                        |                        | 17.43                  |                  |             | 18 |
| 10                           | DS18K     | 25      | 24        |                        |                        | 17.38                  |                  |             |    |
| 10                           | DS18K     | 50      | 0         |                        |                        | 17.41                  |                  |             |    |
| Channel                      |           |         |           |                        |                        |                        |                  |             |    |
| 5                            | FREQ1     | 1       | 0         |                        |                        | 23.05                  |                  |             |    |
| 5                            | DS18K     | 1       | 12        |                        |                        | 22.93                  |                  |             | 24 |
| 5                            | DS18K     | 1       | 24        |                        |                        | 22.92                  |                  |             |    |
| 5                            | DS18K     | 1       | 24        |                        |                        | 22.68                  |                  |             | 23 |
| 5                            | DS18K     | 1       | 48        |                        |                        | 22.62                  |                  |             |    |
| 5                            | DS18K     | 12      | 0         |                        |                        | 21.30                  |                  |             | 21 |
| 5                            | DS18K     | 12      | 12        |                        |                        | 21.31                  |                  |             |    |
| 5                            | DS18K     | 12      | 24        |                        |                        | 21.26                  |                  |             |    |
| 5                            | DS18K     | 12      | 36        |                        |                        | 21.13                  |                  |             | 20 |
| 5                            | DS18K     | 1       | 0         |                        |                        | 21.67                  |                  |             | 21 |
| 5                            | DS18K     | 1       | 12        |                        |                        | 21.81                  |                  |             |    |
| 5                            | DS18K     | 1       | 24        |                        |                        | 21.41                  |                  |             |    |
| 5                            | DS18K     | 12      | 0         |                        |                        | 20.44                  |                  |             | 20 |
| 5                            | DS18K     | 12      | 12        |                        |                        | 20.31                  |                  |             | 20 |
| 5                            | DS18K     | 12      | 24        |                        |                        | 20.35                  |                  |             | 22 |
| 5                            | DS18K     | 25      | 0         |                        |                        | 20.16                  |                  |             | 20 |
| 5                            | DS18K     | 25      | 12        |                        |                        | 20.04                  |                  |             |    |
| 5                            | DS18K     | 12      | 36        |                        |                        | 20.51                  |                  |             | 20 |
| 5                            | DS18K     | 12      | 48        |                        |                        | 20.47                  |                  |             | 22 |
| 5                            | DS18K     | 1       | 0         |                        |                        | 20.39                  |                  |             | 20 |
| 5                            | DS18K     | 1       | 12        |                        |                        | 20.48                  |                  |             |    |
| 5                            | DS18K     | 1       | 24        |                        |                        | 19.48                  |                  |             | 19 |
| 5                            | DS18K     | 1       | 48        |                        |                        | 19.45                  |                  |             |    |
| 5                            | DS18K     | 12      | 0         |                        |                        | 19.22                  |                  |             | 19 |
| 5                            | DS18K     | 12      | 12        |                        |                        | 19.28                  |                  |             |    |
| 5                            | DS18K     | 12      | 24        |                        |                        | 19.38                  |                  |             |    |
| 5                            | DS18K     | 1       | 12        |                        |                        | 17.16                  |                  |             | 19 |
| 5                            | DS18K     | 1       | 24        |                        |                        | 17.25                  |                  |             |    |
| 5                            | DS18K     | 12      | 0         |                        |                        | 17.24                  |                  |             | 19 |
| 5                            | DS18K     | 12      | 12        |                        |                        | 17.21                  |                  |             |    |
| 5                            | DS18K     | 12      | 24        |                        |                        | 17.17                  |                  |             | 19 |
| 5                            | DS18K     | 1       | 0         |                        |                        | 17.21                  |                  |             |    |

| Band 17 AntD 521 Standalone |            |         |           |                                        |                                        |                                        |                      |             |    |
|-----------------------------|------------|---------|-----------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------|-------------|----|
| BS (MHz)                    | Modulation | RB Size | RB Offset | Power Level<br>Power<br>Level<br>Ch. 1 | Power Level<br>Power<br>Level<br>Ch. 2 | Power Level<br>Power<br>Level<br>Ch. 3 | Turnup<br>Level (dB) | MFR<br>(dB) |    |
| Channel                     |            |         |           |                                        |                                        |                                        |                      |             |    |
| 23785 23790 23800           |            |         |           |                                        |                                        |                                        |                      |             |    |
| Frequency (MHz)             |            |         |           |                                        |                                        |                                        |                      |             |    |
| 10                          | QPSK       | 1       | 0         | 22.62                                  | 22.65                                  | 22.65                                  |                      |             |    |
| 10                          | QPSK       | 1       | 28        | 22.68                                  | 22.57                                  | 22.41                                  |                      |             | 24 |
| 10                          | QPSK       | 1       | 56        | 22.72                                  | 22.48                                  | 22.33                                  |                      |             |    |
| 10                          | QPSK       | 1       | 84        | 21.57                                  | 21.64                                  | 21.60                                  |                      |             |    |
| 10                          | QPSK       | 12      | 0         | 21.56                                  | 21.43                                  | 21.58                                  |                      |             | 23 |
| 10                          | QPSK       | 12      | 28        | 21.60                                  | 21.46                                  | 21.52                                  |                      |             |    |
| 10                          | QPSK       | 12      | 56        | 21.48                                  | 21.54                                  | 21.51                                  |                      |             |    |
| 10                          | QPSK       | 1       | 0         | 21.49                                  | 21.78                                  | 21.54                                  |                      |             | 23 |
| 10                          | QPSK       | 1       | 28        | 21.55                                  | 21.71                                  | 21.52                                  |                      |             |    |
| 10                          | QPSK       | 1       | 49        | 21.41                                  | 21.65                                  | 21.42                                  |                      |             |    |
| 10                          | QPSK       | 12      | 0         | 20.57                                  | 20.64                                  | 20.51                                  |                      |             |    |
| 10                          | QPSK       | 12      | 28        | 20.61                                  | 20.72                                  | 20.63                                  |                      |             |    |
| 10                          | QPSK       | 12      | 56        | 20.45                                  | 20.60                                  | 20.45                                  |                      |             | 22 |
| 10                          | QPSK       | 12      | 84        | 20.52                                  | 20.41                                  | 20.39                                  |                      |             |    |
| 10                          | QPSK       | 1       | 0         | 20.57                                  | 20.87                                  | 20.61                                  |                      |             | 22 |
| 10                          | QPSK       | 1       | 28        | 20.62                                  | 20.70                                  | 20.65                                  |                      |             |    |
| 10                          | QPSK       | 1       | 49        | 20.56                                  | 20.83                                  | 20.61                                  |                      |             |    |
| 10                          | QPSK       | 12      | 0         | 19.82                                  | 19.83                                  | 19.71                                  |                      |             | 21 |
| 10                          | QPSK       | 12      | 28        | 19.82                                  | 19.83                                  | 19.71                                  |                      |             |    |
| 10                          | QPSK       | 12      | 56        | 19.61                                  | 19.81                                  | 19.64                                  |                      |             |    |
| 10                          | QPSK       | 12      | 84        | 19.78                                  | 19.78                                  | 19.78                                  |                      |             |    |
| 10                          | QPSK       | 1       | 0         | 17.01                                  | 17.71                                  | 17.51                                  |                      |             |    |
| 10                          | QPSK       | 1       | 28        | 17.84                                  | 17.60                                  | 17.37                                  |                      |             | 19 |
| 10                          | QPSK       | 1       | 56        | 17.47                                  | 17.67                                  | 17.48                                  |                      |             |    |
| 10                          | QPSK       | 12      | 0         | 17.54                                  | 17.67                                  | 17.47                                  |                      |             |    |
| 10                          | QPSK       | 12      | 28        | 17.54                                  | 17.69                                  | 17.38                                  |                      |             |    |
| 10                          | QPSK       | 12      | 56        | 17.49                                  | 17.69                                  | 17.49                                  |                      |             |    |
| 10                          | QPSK       | 12      | 84        | 17.31                                  | 17.42                                  | 17.10                                  |                      |             |    |
| Channel                     |            |         |           |                                        |                                        |                                        |                      |             |    |
| 23855 23900 23925           |            |         |           |                                        |                                        |                                        |                      |             |    |
| Frequency (MHz)             |            |         |           |                                        |                                        |                                        |                      |             |    |
| 5                           | QPSK       | 1       | 0         | 22.47                                  | 22.53                                  | 22.44                                  |                      |             |    |
| 5                           | QPSK       | 1       | 12        | 22.56                                  | 22.41                                  | 22.37                                  |                      |             |    |
| 5                           | QPSK       | 1       | 24        | 22.59                                  | 22.33                                  | 22.29                                  |                      |             |    |
| 5                           | QPSK       | 1       | 36        | 21.44                                  | 21.47                                  | 21.43                                  |                      |             |    |
| 5                           | QPSK       | 12      | 0         | 21.51                                  | 21.27                                  | 21.40                                  |                      |             |    |
| 5                           | QPSK       | 12      | 12        | 21.59                                  | 21.28                                  | 21.41                                  |                      |             |    |
| 5                           | QPSK       | 12      | 24        | 21.39                                  | 21.45                                  | 21.43                                  |                      |             |    |
| 5                           | QPSK       | 1       | 0         | 21.53                                  | 21.68                                  | 21.50                                  |                      |             |    |
| 5                           | QPSK       | 1       | 12        | 21.51                                  | 21.27                                  | 21.23                                  |                      |             |    |
| 5                           | QPSK       | 1       | 24        | 21.52                                  | 21.27                                  | 21.36                                  |                      |             |    |
| 5                           | QPSK       | 12      | 0         | 20.39                                  | 20.58                                  | 20.40                                  |                      |             |    |
| 5                           | QPSK       | 12      | 12        | 20.40                                  | 20.46                                  | 20.46                                  |                      |             | 22 |
| 5                           | QPSK       | 12      | 24        | 20.45                                  | 20.44                                  | 20.44                                  |                      |             |    |
| 5                           | QPSK       | 12      | 36        | 20.32                                  | 20.36                                  | 20.35                                  |                      |             |    |
| 5                           | QPSK       | 1       | 0         | 20.66                                  | 20.72                                  | 20.63                                  |                      |             |    |
| 5                           | QPSK       | 1       | 12        | 20.64                                  | 20.64                                  | 20.64                                  |                      |             | 22 |
| 5                           | QPSK       | 1       | 24        | 20.53                                  | 20.76                                  | 20.58                                  |                      |             |    |
| 5                           | QPSK       | 12      | 0         | 19.86                                  | 19.77                                  | 19.66                                  |                      |             |    |
| 5                           | QPSK       | 12      | 12        | 19.83                                  | 19.82                                  | 19.82                                  |                      |             |    |
| 5                           | QPSK       | 12      | 13        | 19.43                                  | 19.71                                  | 19.50                                  |                      |             | 21 |
| 5                           | QPSK       | 12      | 24        | 19.44                                  | 19.63                                  | 19.48                                  |                      |             |    |
| 5                           | QPSK       | 12      | 36        | 17.54                                  | 17.59                                  | 17.54                                  |                      |             |    |
| 5                           | QPSK       | 1       | 0         | 17.67                                  | 17.67                                  | 17.57                                  |                      |             | 19 |
| 5                           | QPSK       | 12      | 24        | 17.67                                  | 17.67                                  | 17.67                                  |                      |             |    |
| 5                           | QPSK       | 12      | 36        | 17.42                                  | 17.62                                  | 17.51                                  |                      |             |    |
| 5                           | QPSK       | 12      | 47        | 17.46                                  | 17.57                                  | 17.51                                  |                      |             |    |
| 5                           | QPSK       | 1       | 0         | 17.46                                  | 17.57                                  | 17.51                                  |                      |             | 19 |
| 5                           | QPSK       | 12      | 25        | 17.41                                  | 17.51                                  | 17.51                                  |                      |             |    |
| 5                           | QPSK       | 12      | 26        | 17.41                                  | 17.51                                  | 17.51                                  |                      |             |    |
| 5                           | QPSK       | 12      | 27        | 17.41                                  | 17.51                                  | 17.51                                  |                      |             |    |



| Band 25 Ant0 DSI2 Standalone |            |         |           |                           |                           |                            |                          |             |                          |             |
|------------------------------|------------|---------|-----------|---------------------------|---------------------------|----------------------------|--------------------------|-------------|--------------------------|-------------|
| BW (MHz)                     | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch./Freq. | Power<br>Med<br>Ch./Freq. | Power<br>High<br>Ch./Freq. | Turn-up<br>Init.<br>(dB) | MPE<br>(dB) |                          |             |
| Channel                      |            |         |           |                           |                           |                            |                          |             |                          |             |
| Frequency (MHz)              |            |         |           |                           |                           |                            |                          |             |                          |             |
| 20                           | QPSK       | 1       | 0         | 22.25                     | 22.32                     | 22.26                      |                          |             | 24                       |             |
| 20                           | QPSK       | 1       | 49        | 22.14                     | 22.24                     | 22.18                      |                          |             |                          |             |
| 20                           | QPSK       | 1       | 99        | 22.23                     | 22.16                     | 22.23                      |                          |             | 23                       |             |
| 20                           | QPSK       | 50      | 0         | 21.39                     | 21.41                     | 21.26                      |                          |             |                          |             |
| 20                           | QPSK       | 50      | 24        | 21.33                     | 21.29                     | 21.24                      |                          |             | 23                       |             |
| 20                           | QPSK       | 50      | 50        | 21.24                     | 21.24                     | 21.10                      |                          |             |                          |             |
| 20                           | QPSK       | 100     | 0         | 21.55                     | 21.52                     | 21.51                      |                          |             | 23                       |             |
| 20                           | 16QAM      | 50      | 0         | 21.48                     | 21.58                     | 21.49                      |                          |             |                          |             |
| 20                           | 16QAM      | 1       | 49        | 21.37                     | 21.45                     | 21.34                      |                          |             | 23                       |             |
| 20                           | 16QAM      | 1       | 99        | 21.40                     | 21.53                     | 21.51                      |                          |             |                          |             |
| 20                           | 16QAM      | 50      | 24        | 20.32                     | 20.29                     | 20.24                      |                          |             | 22                       |             |
| 20                           | 16QAM      | 50      | 50        | 20.22                     | 20.20                     | 20.25                      |                          |             |                          |             |
| 20                           | 16QAM      | 100     | 0         | 20.15                     | 20.21                     | 20.19                      |                          |             | 22                       |             |
| 20                           | 16QAM      | 1       | 0         | 20.29                     | 20.32                     | 20.25                      |                          |             |                          |             |
| 20                           | 16QAM      | 1       | 49        | 20.11                     | 20.18                     | 20.22                      |                          |             | 22                       |             |
| 20                           | 16QAM      | 50      | 0         | 19.31                     | 19.33                     | 19.25                      |                          |             |                          |             |
| 20                           | 16QAM      | 50      | 24        | 19.28                     | 19.27                     | 19.13                      |                          |             | 21                       |             |
| 20                           | 16QAM      | 50      | 50        | 19.25                     | 19.23                     | 19.21                      |                          |             |                          |             |
| 20                           | 16QAM      | 100     | 0         | 19.21                     | 19.28                     | 19.15                      |                          |             | 21                       |             |
| 20                           | 16QAM      | 1       | 0         | 17.20                     | 17.36                     | 17.29                      |                          |             |                          |             |
| 20                           | 16QAM      | 1       | 49        | 17.13                     | 17.25                     | 17.13                      |                          |             | 19                       |             |
| 20                           | 16QAM      | 1       | 99        | 17.23                     | 17.18                     | 17.23                      |                          |             |                          |             |
| 20                           | 16QAM      | 50      | 24        | 17.12                     | 17.20                     | 17.13                      |                          |             | 19                       |             |
| 20                           | 16QAM      | 50      | 50        | 17.25                     | 17.15                     | 17.21                      |                          |             |                          |             |
| 20                           | 16QAM      | 100     | 0         | 17.16                     | 17.21                     | 17.16                      |                          |             |                          |             |
| Channel                      |            |         |           |                           |                           |                            |                          |             |                          |             |
| Frequency (MHz)              |            |         |           |                           |                           |                            |                          |             |                          |             |
| 15                           | QPSK       | 1       | 0         | 18.07                     | 18.00                     | 18.07                      |                          |             | 24                       |             |
| 15                           | QPSK       | 1       | 49        | 22.02                     | 22.18                     | 22.02                      |                          |             |                          |             |
| 15                           | QPSK       | 1       | 74        | 22.09                     | 22.10                     | 22.18                      |                          |             | 23                       |             |
| 15                           | QPSK       | 36      | 0         | 21.32                     | 21.34                     | 21.17                      |                          |             |                          |             |
| 15                           | QPSK       | 36      | 20        | 21.27                     | 21.14                     | 21.12                      |                          |             | 23                       |             |
| 15                           | QPSK       | 36      | 36        | 21.14                     | 21.11                     | 21.15                      |                          |             |                          |             |
| 15                           | QPSK       | 75      | 0         | 21.49                     | 21.58                     | 21.46                      |                          |             | 23                       |             |
| 15                           | 16QAM      | 1       | 49        | 21.38                     | 21.43                     | 21.42                      |                          |             |                          |             |
| 15                           | 16QAM      | 1       | 37        | 21.28                     | 21.34                     | 21.29                      |                          |             | 23                       |             |
| 15                           | 16QAM      | 36      | 0         | 20.19                     | 20.28                     | 20.13                      |                          |             |                          |             |
| 15                           | 16QAM      | 36      | 20        | 20.13                     | 20.20                     | 20.04                      |                          |             | 22                       |             |
| 15                           | 16QAM      | 75      | 0         | 20.10                     | 20.14                     | 20.04                      |                          |             |                          |             |
| 15                           | 16QAM      | 1       | 0         | 20.21                     | 20.22                     | 20.15                      |                          |             | 22                       |             |
| 15                           | 16QAM      | 1       | 37        | 20.06                     | 20.07                     | 20.06                      |                          |             |                          |             |
| 15                           | 16QAM      | 1       | 74        | 20.10                     | 20.08                     | 20.05                      |                          |             | 21                       |             |
| 15                           | 16QAM      | 36      | 0         | 19.20                     | 19.21                     | 19.13                      |                          |             |                          |             |
| 15                           | 16QAM      | 36      | 20        | 19.23                     | 19.26                     | 19.15                      |                          |             | 21                       |             |
| 15                           | 16QAM      | 36      | 36        | 19.12                     | 19.13                     | 19.05                      |                          |             |                          |             |
| 15                           | 16QAM      | 75      | 0         | 19.12                     | 19.17                     | 19.02                      |                          |             | 19                       |             |
| 15                           | 16QAM      | 1       | 37        | 17.07                     | 17.12                     | 17.07                      |                          |             |                          |             |
| 15                           | 16QAM      | 1       | 74        | 17.14                     | 17.11                     | 17.16                      |                          |             | 19                       |             |
| 15                           | 16QAM      | 36      | 20        | 17.26                     | 17.20                     | 17.21                      |                          |             |                          |             |
| 15                           | 16QAM      | 36      | 20        | 17.02                     | 17.08                     | 17.05                      |                          |             | 19                       |             |
| 15                           | 16QAM      | 36      | 37        | 17.17                     | 17.04                     | 17.13                      |                          |             |                          |             |
| 15                           | 16QAM      | 75      | 0         | 17.16                     | 17.11                     | 17.08                      |                          |             |                          |             |
| Channel                      |            |         |           |                           |                           |                            |                          |             |                          |             |
| Frequency (MHz)              |            |         |           |                           |                           |                            |                          |             |                          |             |
| 10                           | QPSK       | 1       | 0         | 22.18                     | 22.23                     | 22.23                      |                          |             | 24                       |             |
| 10                           | QPSK       | 1       | 25        | 22.08                     | 22.14                     | 22.02                      |                          |             |                          |             |
| 10                           | QPSK       | 1       | 49        | 22.11                     | 22.10                     | 22.15                      |                          |             | 23                       |             |
| 10                           | QPSK       | 25      | 0         | 21.39                     | 21.38                     | 21.25                      |                          |             |                          |             |
| 10                           | QPSK       | 25      | 12        | 21.24                     | 21.15                     | 21.14                      |                          |             | 23                       |             |
| 10                           | QPSK       | 25      | 25        | 21.19                     | 21.16                     | 21.08                      |                          |             |                          |             |
| 10                           | QPSK       | 36      | 0         | 21.48                     | 21.51                     | 21.45                      |                          |             | 23                       |             |
| 10                           | 16QAM      | 1       | 0         | 21.39                     | 21.51                     | 21.40                      |                          |             |                          |             |
| 10                           | 16QAM      | 1       | 25        | 21.31                     | 21.32                     | 21.25                      |                          |             | 22                       |             |
| 10                           | 16QAM      | 25      | 0         | 20.24                     | 20.28                     | 20.14                      |                          |             |                          |             |
| 10                           | 16QAM      | 25      | 12        | 20.15                     | 20.24                     | 20.01                      |                          |             | 22                       |             |
| 10                           | 16QAM      | 50      | 0         | 20.08                     | 20.08                     | 20.07                      |                          |             |                          |             |
| 10                           | 16QAM      | 1       | 0         | 20.21                     | 20.18                     | 20.11                      |                          |             | 22                       |             |
| 10                           | 16QAM      | 1       | 25        | 20.05                     | 20.06                     | 20.05                      |                          |             |                          |             |
| 10                           | 16QAM      | 1       | 49        | 20.10                     | 20.14                     | 20.11                      |                          |             | 21                       |             |
| 10                           | 16QAM      | 25      | 0         | 19.16                     | 19.24                     | 19.13                      |                          |             |                          |             |
| 10                           | 16QAM      | 25      | 12        | 19.10                     | 19.13                     | 19.08                      |                          |             | 21                       |             |
| 10                           | 16QAM      | 25      | 25        | 19.08                     | 19.10                     | 19.08                      |                          |             |                          |             |
| 10                           | 16QAM      | 50      | 0         | 19.08                     | 19.12                     | 19.09                      |                          |             | 19                       |             |
| 10                           | 16QAM      | 1       | 0         | 17.10                     | 17.22                     | 17.10                      |                          |             |                          |             |
| 10                           | 16QAM      | 1       | 25        | 17.06                     | 17.14                     | 17.06                      |                          |             | 19                       |             |
| 10                           | 16QAM      | 1       | 49        | 17.23                     | 17.20                     | 17.23                      |                          |             |                          |             |
| 10                           | 16QAM      | 25      | 12        | 17.11                     | 17.05                     | 17.06                      |                          |             | 19                       |             |
| 10                           | 16QAM      | 25      | 25        | 17.13                     | 17.09                     | 17.14                      |                          |             |                          |             |
| 10                           | 16QAM      | 50      | 0         | 17.03                     | 17.13                     | 17.07                      |                          |             |                          |             |
| Channel                      |            |         |           |                           |                           |                            |                          |             |                          |             |
| Frequency (MHz)              |            |         |           |                           |                           |                            |                          |             |                          |             |
| 5                            | QPSK       | 1       | 0         | 22.18                     | 22.18                     | 22.18                      |                          |             | 24                       |             |
| 5                            | QPSK       | 1       | 12        | 22.03                     | 22.18                     | 22.03                      |                          |             |                          |             |
| 5                            | QPSK       | 1       | 24        | 22.15                     | 22.10                     | 22.15                      |                          |             | 23                       |             |
| 5                            | QPSK       | 12      | 0         | 21.30                     | 21.28                     | 21.25                      |                          |             |                          |             |
| 5                            | QPSK       | 12      | 7         | 21.21                     | 21.19                     | 21.17                      |                          |             | 23                       |             |
| 5                            | QPSK       | 12      | 13        | 21.13                     | 21.12                     | 21.05                      |                          |             |                          |             |
| 5                            | QPSK       | 36      | 0         | 21.41                     | 21.55                     | 21.41                      |                          |             | 23                       |             |
| 5                            | 16QAM      | 1       | 0         | 21.41                     | 21.45                     | 21.43                      |                          |             |                          |             |
| 5                            | 16QAM      | 1       | 12        | 21.31                     | 21.30                     | 21.24                      |                          |             | 23                       |             |
| 5                            | 16QAM      | 1       | 24        | 21.33                     | 21.43                     | 21.27                      |                          |             |                          |             |
| 5                            | 16QAM      | 12      | 0         | 20.22                     | 20.26                     | 20.22                      |                          |             | 22                       |             |
| 5                            | 16QAM      | 12      | 7         | 20.10                     | 20.19                     | 20.08                      |                          |             |                          |             |
| 5                            | 16QAM      | 12      | 13        | 20.08                     | 20.18                     | 20.02                      |                          |             | 22                       |             |
| 5                            | 16QAM      | 25      | 0         | 20.01                     | 20.16                     | 20.11                      |                          |             |                          |             |
| 5                            | 16QAM      | 1       | 0         | 20.21                     | 20.23                     | 20.12                      |                          |             | 22                       |             |
| 5                            | 16QAM      | 1       | 12        | 20.01                     | 20.08                     | 20.01                      |                          |             |                          |             |
| 5                            | 16QAM      | 1       | 24        | 20.08                     | 20.15                     | 20.04                      |                          |             | 21                       |             |
| 5                            | 16QAM      | 12      | 0         | 19.21                     | 19.19                     | 19.14                      |                          |             |                          |             |
| 5                            | 16QAM      | 12      | 7         | 19.16                     | 19.14                     | 19.09                      |                          |             | 21                       |             |
| 5                            | 16QAM      | 12      | 13        | 19.15                     | 19.16                     | 19.07                      |                          |             |                          |             |
| 5                            | 16QAM      | 25      | 0         | 19.13                     | 19.22                     | 19.06                      |                          |             | 19                       |             |
| 5                            | 16QAM      | 1       | 0         | 17.11                     | 17.24                     | 17.22                      |                          |             |                          |             |
| 5                            | 16QAM      | 1       | 12        | 17.01                     | 17.19                     | 17.06                      |                          |             | 19                       |             |
| 5                            | 16QAM      | 1       | 24        | 17.10                     | 17.10                     | 17.14                      |                          |             |                          |             |
| 5                            | 16QAM      | 12      | 0         | 17.17                     | 17.25                     | 17.24                      |                          |             | 19                       |             |
| 5                            | 16QAM      | 12      | 7         | 17.04                     | 17.15                     | 17.01                      |                          |             |                          |             |
| 5                            | 16QAM      | 12      | 13        | 17.14                     | 17.08                     | 17.13                      |                          |             | 19                       |             |
| 5                            | 16QAM      | 25      | 0         | 17.19                     | 17.08                     | 17.06                      |                          |             |                          |             |
| 5                            | 16QAM      | 25      | 0         | 17.19                     | 17.08                     | 17.06                      |                          |             |                          |             |
| Channel                      |            |         |           |                           |                           |                            |                          |             |                          |             |
| Frequency (MHz)              |            |         |           |                           |                           |                            |                          |             |                          |             |
| 3                            | QPSK       | 1       | 0         | 22.18                     | 22.27                     | 22.15                      |                          |             | 24                       |             |
| 3                            | QPSK       | 1       | 8         | 22.07                     | 22.19                     | 22.02                      |                          |             |                          |             |
| 3                            | QPSK       | 1       | 14        | 22.08                     | 22.01                     | 22.17                      |                          |             | 23                       |             |
| 3                            | QPSK       | 8       | 0         | 21.27                     | 21.30                     | 21.25                      |                          |             |                          |             |
| 3                            | QPSK       | 8       | 4         | 21.21                     | 21.14                     | 21.14                      |                          |             | 23                       |             |
| 3                            | QPSK       | 8       | 7         | 21.17                     | 21.10                     | 21.03                      |                          |             |                          |             |
| 3                            | QPSK       | 15      | 0         | 21.41                     | 21.49                     | 21.41                      |                          |             | 23                       |             |
| 3                            | 16QAM      | 1       | 0         | 21.37                     | 21.45                     | 21.43                      |                          |             |                          |             |
| 3                            | 16QAM      | 1       | 8         | 21.31                     | 21.32                     | 21.26                      |                          |             | 22                       |             |
| 3                            | 16QAM      | 1       | 14        | 21.29                     | 21.38                     | 21.32                      |                          |             |                          |             |
| 3                            | 16QAM      | 8       | 0         | 20.27                     | 20.18                     | 20.14                      |                          |             | 22                       |             |
| 3                            | 16QAM      | 8       | 4         | 20.15                     | 20.21                     | 20.02                      |                          |             |                          |             |
| 3                            | 16QAM      | 15      | 0         | 20.07                     | 20.08                     | 20.14                      |                          |             | 22                       |             |
| 3                            | 16QAM      | 15      | 0         | 20.06                     | 20.10                     | 20.10                      |                          |             |                          |             |
| 3                            | 16QAM      | 1       | 0         | 20.18                     | 20.20                     | 20.11                      |                          |             | 22                       |             |
| 3                            | 16QAM      | 1       | 8         | 20.05                     | 20.11                     | 20.11                      |                          |             |                          |             |
| 3                            | 16QAM      | 1       | 14        | 20.05                     | 20.16                     | 20.11                      |                          |             | 21                       |             |
| 3                            | 16QAM      | 8       | 0         | 19.19                     | 19.24                     | 19.13                      |                          |             |                          |             |
| 3                            | 16QAM      | 8       | 7         | 19.20                     | 19.16                     | 19.11                      |                          |             | 21                       |             |
| 3                            | 16QAM      | 8       | 7         | 19.17                     | 19.17                     | 19.13                      |                          |             |                          |             |
| 3                            | 16QAM      | 15      | 0         | 17.09                     | 17.23                     | 17.18                      |                          |             | 19                       |             |
| 3                            | 16QAM      | 1       | 8         | 17.05                     | 17.19                     | 17.05                      |                          |             |                          |             |
| 3                            | 16QAM      | 1       | 14        | 17.03                     | 17.20                     | 17.02                      |                          |             | 19                       |             |
| 3                            | 16QAM      | 8       | 0         | 17.17                     | 17.18                     | 17.19                      |                          |             |                          |             |
| 3                            | 16QAM      | 8       | 4         | 17.01                     | 17.15                     | 17.05                      |                          |             | 19                       |             |
| 3                            | 16QAM      | 8       | 7         | 17.06                     | 17.08                     | 17.02                      |                          |             |                          |             |
| 3                            | 16QAM      | 15      | 0         | 17.10                     | 17.11                     | 17.05                      |                          |             |                          |             |
| Channel                      |            |         |           |                           |                           |                            |                          |             |                          |             |
| Frequency (MHz)              |            |         | 1803.5    |                           |                           | 1860                       |                          |             | Turn-up<br>Init.<br>(dB) | MPE<br>(dB) |
| 1.4                          | QPSK       | 1       | 0         | 22.18                     | 22.29                     | 22.24                      |                          |             |                          |             |
| 1.4                          | QPSK       | 1       | 8         | 22.08                     | 22.21                     | 22.01                      |                          |             | 24                       |             |
| 1.4                          | QPSK       | 3       | 0         | 21.24                     | 21.28                     | 21.22                      |                          |             |                          |             |
| 1.4                          | QPSK       | 3       | 5         | 21.22                     | 21.30                     | 21.27                      |                          |             | 23                       |             |
| 1.4                          | QPSK       | 3       | 9         | 21.16                     | 21.24                     | 21.21                      |                          |             |                          |             |
| 1.4                          | QPSK       | 15      | 0         | 20.04                     | 20.08                     | 20.04                      |                          |             | 23                       |             |
| 1.4                          | QPSK       | 15      | 0         | 20.04                     | 20.08                     | 20.04                      |                          |             |                          |             |
| 1.4                          | QPSK       | 3       | 1         | 21.21                     | 21.28                     | 21.19                      |                          |             | 23                       |             |
| 1.4                          | QPSK       | 3       | 1         | 21.01                     | 21.38                     | 21.14                      |                          |             |                          |             |
| 1.4                          | QPSK       | 3       | 1         | 21.01                     | 21.38                     | 21.14                      |                          |             | 23                       |             |
| 1.4                          | QPSK       | 3       | 1         | 21.01                     | 21.38                     | 21.14                      |                          |             |                          |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             | 22                       |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             |                          |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             | 22                       |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             |                          |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             | 22                       |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             |                          |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             | 22                       |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             |                          |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             | 22                       |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             |                          |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             | 22                       |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             |                          |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             | 22                       |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             |                          |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             | 22                       |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             |                          |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.09                      |                          |             | 22                       |             |
| 1.4                          | QPSK       | 3       | 1         | 21.11                     | 21.31                     | 21.                        |                          |             |                          |             |

| Band 4 Ant1 DS12 Standalone |            |         |           |                     |                     |                      |                    |          |    |   |  |  |  |  |  |  |
|-----------------------------|------------|---------|-----------|---------------------|---------------------|----------------------|--------------------|----------|----|---|--|--|--|--|--|--|
| BW (MHz)                    | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Med Ch./Freq. | Power High Ch./Freq. | Turn-up time (sec) | MPE (dB) |    |   |  |  |  |  |  |  |
| Channel                     |            |         |           |                     |                     |                      |                    |          |    |   |  |  |  |  |  |  |
| Frequency (MHz)             |            |         |           |                     |                     |                      |                    |          |    |   |  |  |  |  |  |  |
| 20                          | QPSK       | 1       | 0         | 22.79               | 22.83               | 22.80                | 24                 | 0        |    |   |  |  |  |  |  |  |
| 20                          | QPSK       | 1       | 49        | 22.89               | 22.93               | 22.90                |                    |          |    |   |  |  |  |  |  |  |
| 20                          | QPSK       | 1       | 99        | 22.89               | 22.98               | 22.97                |                    |          |    |   |  |  |  |  |  |  |
| 20                          | QPSK       | 50      | 0         | 21.98               | 21.99               | 21.91                |                    |          |    |   |  |  |  |  |  |  |
| 20                          | QPSK       | 24      | 0         | 21.98               | 21.91               | 21.98                | 23                 | 1        |    |   |  |  |  |  |  |  |
| 20                          | QPSK       | 50      | 50        | 21.72               | 21.76               | 21.76                |                    |          |    |   |  |  |  |  |  |  |
| 20                          | QPSK       | 100     | 0         | 21.63               | 21.71               | 21.69                |                    |          |    |   |  |  |  |  |  |  |
| 20                          | QPSK       | 150     | 0         | 22.11               | 22.14               | 22.09                |                    |          |    |   |  |  |  |  |  |  |
| 20                          | HQAM       | 1       | 49        | 21.97               | 22.01               | 21.99                | 23                 | 1        |    |   |  |  |  |  |  |  |
| 20                          | HQAM       | 1       | 99        | 22.01               | 22.01               | 21.98                |                    |          |    |   |  |  |  |  |  |  |
| 20                          | HQAM       | 50      | 0         | 20.91               | 21.93               | 20.99                |                    |          |    |   |  |  |  |  |  |  |
| 20                          | HQAM       | 50      | 24        | 19.98               | 20.05               | 20.00                |                    |          |    |   |  |  |  |  |  |  |
| 20                          | HQAM       | 50      | 50        | 19.97               | 20.07               | 19.92                | 21                 | 3        |    |   |  |  |  |  |  |  |
| 20                          | HQAM       | 100     | 0         | 20.18               | 20.32               | 20.22                |                    |          |    |   |  |  |  |  |  |  |
| 20                          | HQAM       | 1       | 49        | 17.73               | 17.83               | 17.76                |                    |          |    |   |  |  |  |  |  |  |
| 20                          | HQAM       | 1       | 49        | 17.72               | 17.78               | 17.67                |                    |          |    |   |  |  |  |  |  |  |
| 20                          | HQAM       | 1       | 99        | 17.48               | 17.57               | 17.43                | 19                 | 5        |    |   |  |  |  |  |  |  |
| 20                          | HQAM       | 50      | 0         | 17.56               | 17.64               | 17.50                |                    |          |    |   |  |  |  |  |  |  |
| 20                          | HQAM       | 50      | 24        | 17.38               | 17.45               | 17.30                |                    |          |    |   |  |  |  |  |  |  |
| 20                          | HQAM       | 50      | 50        | 17.48               | 17.63               | 17.58                |                    |          |    |   |  |  |  |  |  |  |
| 20                          | HQAM       | 100     | 0         | 17.69               | 17.76               | 17.63                | 19                 | 5        |    |   |  |  |  |  |  |  |
| Channel                     |            |         |           |                     |                     |                      |                    |          |    |   |  |  |  |  |  |  |
| Frequency (MHz)             |            |         |           |                     |                     |                      |                    |          |    |   |  |  |  |  |  |  |
| 15                          | QPSK       | 1       | 0         | 22.87               | 22.76               | 22.73                |                    |          | 24 | 0 |  |  |  |  |  |  |
| 15                          | QPSK       | 1       | 37        | 22.82               | 22.84               | 22.81                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | QPSK       | 1       | 74        | 22.82               | 22.48               | 22.42                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | QPSK       | 36      | 0         | 21.88               | 21.91               | 21.78                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | QPSK       | 36      | 36        | 21.65               | 21.65               | 21.61                | 23                 | 1        |    |   |  |  |  |  |  |  |
| 15                          | QPSK       | 75      | 0         | 21.69               | 21.69               | 21.64                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | QPSK       | 100     | 0         | 21.78               | 21.85               | 21.79                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 1       | 0         | 22.00               | 22.07               | 22.03                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 1       | 37        | 21.84               | 21.92               | 21.84                | 23                 | 1        |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 1       | 36        | 21.86               | 21.87               | 21.84                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 36      | 0         | 20.77               | 20.91               | 20.83                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 36      | 20        | 20.70               | 20.80               | 20.79                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 36      | 36        | 20.69               | 20.80               | 20.79                | 22                 | 2        |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 75      | 0         | 20.73               | 20.81               | 20.68                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 1       | 0         | 20.88               | 21.01               | 20.92                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 37      | 0         | 20.72               | 20.85               | 20.78                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 1       | 74        | 20.76               | 20.85               | 20.83                | 22                 | 2        |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 36      | 0         | 19.81               | 19.97               | 19.81                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 36      | 20        | 19.85               | 19.99               | 19.85                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 36      | 36        | 19.80               | 19.94               | 19.82                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 75      | 0         | 20.87               | 20.24               | 20.69                | 21                 | 3        |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 1       | 0         | 17.56               | 17.62               | 17.49                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 1       | 37        | 17.58               | 17.67               | 17.51                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 1       | 74        | 17.38               | 17.47               | 17.30                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 36      | 0         | 17.44               | 17.45               | 17.43                | 19                 | 5        |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 36      | 20        | 17.40               | 17.43               | 17.33                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 36      | 36        | 17.49               | 17.53               | 17.45                |                    |          |    |   |  |  |  |  |  |  |
| 15                          | HQAM       | 75      | 0         | 17.15               | 17.43               | 17.40                |                    |          |    |   |  |  |  |  |  |  |
| Channel                     |            |         |           |                     |                     |                      |                    |          |    |   |  |  |  |  |  |  |
| Frequency (MHz)             |            |         |           |                     |                     |                      |                    |          |    |   |  |  |  |  |  |  |
| 10                          | QPSK       | 1       | 0         | 22.48               | 22.78               | 22.78                | 24                 | 0        |    |   |  |  |  |  |  |  |
| 10                          | QPSK       | 1       | 25        | 22.57               | 22.65               | 22.65                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | QPSK       | 1       | 49        | 22.54               | 22.49               | 22.47                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | QPSK       | 1       | 49        | 21.88               | 21.89               | 21.81                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | QPSK       | 25      | 12        | 21.77               | 21.83               | 21.78                | 23                 | 1        |    |   |  |  |  |  |  |  |
| 10                          | QPSK       | 25      | 25        | 21.59               | 21.68               | 21.68                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | QPSK       | 100     | 0         | 21.67               | 21.67               | 21.63                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 1       | 0         | 22.00               | 22.07               | 22.03                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 1       | 25        | 21.89               | 21.91               | 21.88                | 23                 | 1        |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 1       | 49        | 21.88               | 21.88               | 21.85                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 25      | 0         | 20.88               | 20.97               | 20.77                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 25      | 12        | 20.87               | 20.85               | 20.79                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 25      | 12        | 20.80               | 20.88               | 20.87                | 22                 | 2        |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 50      | 0         | 20.71               | 20.86               | 20.72                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 1       | 0         | 20.88               | 20.94               | 20.89                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 1       | 25        | 20.74               | 20.84               | 20.80                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 1       | 49        | 20.78               | 20.88               | 20.88                | 21                 | 3        |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 25      | 0         | 19.89               | 19.97               | 19.90                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 25      | 12        | 19.88               | 19.98               | 19.92                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 25      | 25        | 19.81               | 19.88               | 19.79                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 50      | 0         | 20.11               | 20.22               | 20.08                | 19                 | 5        |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 1       | 0         | 17.65               | 17.77               | 17.61                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 1       | 25        | 17.65               | 17.73               | 17.58                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 1       | 49        | 17.42               | 17.49               | 17.33                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 25      | 0         | 17.50               | 17.51               | 17.43                | 19                 | 5        |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 25      | 12        | 17.29               | 17.42               | 17.36                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 25      | 25        | 17.35               | 17.49               | 17.47                |                    |          |    |   |  |  |  |  |  |  |
| 10                          | HQAM       | 50      | 0         | 17.58               | 17.62               | 17.49                |                    |          |    |   |  |  |  |  |  |  |
| Channel                     |            |         |           |                     |                     |                      |                    |          |    |   |  |  |  |  |  |  |
| Frequency (MHz)             |            |         |           |                     |                     |                      |                    |          |    |   |  |  |  |  |  |  |
| 5                           | QPSK       | 1       | 0         | 22.42               | 22.73               | 22.73                | 24                 | 0        |    |   |  |  |  |  |  |  |
| 5                           | QPSK       | 1       | 12        | 22.57               | 22.49               | 22.50                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | QPSK       | 1       | 24        | 22.51               | 22.46               | 22.47                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | QPSK       | 12      | 0         | 21.86               | 21.89               | 21.81                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | QPSK       | 12      | 7         | 21.80               | 21.85               | 21.75                | 23                 | 1        |    |   |  |  |  |  |  |  |
| 5                           | QPSK       | 12      | 13        | 21.66               | 21.64               | 21.63                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | QPSK       | 25      | 0         | 21.53               | 21.58               | 21.58                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 1       | 0         | 22.01               | 22.03               | 22.00                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 1       | 12        | 21.90               | 21.93               | 21.88                | 23                 | 1        |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 1       | 24        | 21.98               | 21.98               | 21.93                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 12      | 0         | 20.82               | 20.89               | 20.77                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 12      | 7         | 20.89               | 20.89               | 20.73                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 12      | 13        | 20.69               | 20.81               | 20.63                | 22                 | 2        |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 25      | 0         | 20.71               | 20.81               | 20.76                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 1       | 0         | 20.90               | 20.93               | 20.86                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 1       | 12        | 20.77               | 20.87               | 20.79                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 1       | 24        | 20.80               | 20.85               | 20.85                | 21                 | 3        |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 12      | 0         | 19.82               | 19.94               | 19.87                | 21                 | 3        |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 12      | 7         | 19.89               | 19.96               | 19.85                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 12      | 13        | 19.69               | 19.78               | 19.69                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 25      | 0         | 20.12               | 20.21               | 20.08                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 1       | 0         | 17.63               | 17.68               | 17.63                | 19                 | 5        |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 1       | 12        | 17.62               | 17.73               | 17.65                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 1       | 24        | 17.40               | 17.44               | 17.30                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 12      | 0         | 17.46               | 17.52               | 17.48                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 12      | 7         | 17.43               | 17.51               | 17.43                | 19                 | 5        |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 12      | 13        | 17.40               | 17.54               | 17.48                |                    |          |    |   |  |  |  |  |  |  |
| 5                           | HQAM       | 25      | 0         | 17.55               | 17.64               | 17.48                |                    |          |    |   |  |  |  |  |  |  |
| Channel                     |            |         |           |                     |                     |                      |                    |          |    |   |  |  |  |  |  |  |
| Frequency (MHz)             |            |         |           |                     |                     |                      |                    |          |    |   |  |  |  |  |  |  |
| 3                           | QPSK       | 1       | 0         | 22.15               | 22.52               | 22.52                |                    |          | 24 | 0 |  |  |  |  |  |  |
| 3                           | QPSK       | 1       | 12        | 22.27               | 22.39               | 22.30                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | QPSK       | 1       | 24        | 22.27               | 22.28               | 22.27                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | QPSK       | 1       | 14        | 22.52               | 22.51               | 22.46                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | QPSK       | 8       | 0         | 21.89               | 21.84               | 21.77                | 23                 | 1        |    |   |  |  |  |  |  |  |
| 3                           | QPSK       | 8       | 7         | 21.76               | 21.79               | 21.71                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | QPSK       | 8       | 14        | 21.61               | 21.71               | 21.68                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 1       | 0         | 21.53               | 21.57               | 21.56                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 1       | 12        | 21.46               | 21.50               | 21.47                | 23                 | 1        |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 1       | 8         | 21.83               | 21.87               | 21.81                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 1       | 14        | 21.87               | 21.91               | 21.83                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 8       | 0         | 20.74               | 20.89               | 20.80                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 8       | 7         | 20.69               | 20.77               | 20.66                | 22                 | 2        |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 8       | 14        | 20.81               | 20.94               | 20.88                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 1       | 0         | 20.91               | 20.94               | 20.88                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 1       | 8         | 20.72               | 20.82               | 20.74                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 8       | 0         | 19.89               | 19.93               | 19.82                | 21                 | 3        |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 8       | 7         | 19.87               | 19.92               | 19.83                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 8       | 14        | 19.72               | 19.81               | 19.72                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 15      | 0         | 20.08               | 20.25               | 20.14                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 1       | 0         | 17.68               | 17.76               | 17.69                | 19                 | 5        |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 1       | 8         | 17.65               | 17.69               | 17.65                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 1       | 14        | 17.43               | 17.45               | 17.36                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 8       | 0         | 17.28               | 17.48               | 17.45                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 8       | 7         | 17.25               | 17.43               | 17.29                | 19                 | 5        |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 8       | 14        | 17.33               | 17.67               | 17.48                |                    |          |    |   |  |  |  |  |  |  |
| 3                           | HQAM       | 15      | 0         | 17.46               | 17.53               | 17.46                |                    |          |    |   |  |  |  |  |  |  |
| Channel                     |            |         |           |                     |                     |                      |                    |          |    |   |  |  |  |  |  |  |
| Frequency (MHz)             |            |         |           |                     |                     |                      |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | QPSK       | 1       | 0         | 22.14               | 22.33               | 22.24                |                    |          | 24 | 0 |  |  |  |  |  |  |
| 1.4                         | QPSK       | 1       | 12        | 22.05               | 22.28               | 22.21                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | QPSK       | 1       | 6         | 22.13               | 22.24               | 22.20                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | QPSK       | 1       | 6         | 22.22               | 22.29               | 22.19                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | QPSK       | 3       | 0         | 21.76               | 21.78               | 21.74                | 23                 | 1        |    |   |  |  |  |  |  |  |
| 1.4                         | QPSK       | 3       | 3         | 22.15               | 22.18               | 22.24                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | QPSK       | 3       | 6         | 22.12               | 22.19               | 22.15                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 1       | 0         | 21.23               | 21.41               | 21.25                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 1       | 6         | 21.19               | 21.44               | 21.10                | 23                 | 1        |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 1       | 3         | 21.36               | 21.51               | 21.30                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 3       | 0         | 21.18               | 21.37               | 21.23                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 3       | 3         | 21.51               | 21.38               | 21.60                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 6       | 0         | 20.10               | 20.28               | 20.00                | 22                 | 2        |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 6       | 6         | 20.34               | 20.55               | 20.41                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 6       | 3         | 20.35               | 20.58               | 20.42                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 6       | 6         | 20.34               | 20.38               | 20.27                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 3       | 0         | 20.35               | 20.35               | 20.19                | 22                 | 2        |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 3       | 3         | 20.26               | 20.39               | 20.23                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 3       | 6         | 20.28               | 20.40               | 20.30                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 6       | 0         | 19.28               | 19.40               | 19.09                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 3       | 0         | 17.03               | 17.21               | 17.21                | 19                 | 5        |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 3       | 3         | 17.08               | 17.17               | 17.08                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 3       | 6         | 17.28               | 17.37               | 17.28                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 3       | 6         | 17.06               | 17.01               | 17.08                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 6       | 0         | 17.12               | 17.19               | 17.12                | 19                 | 5        |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 6       | 3         | 17.17               | 17.26               | 17.17                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 6       | 6         | 17.14               | 17.18               | 17.15                |                    |          |    |   |  |  |  |  |  |  |
| 1.4                         | HQAM       | 6       | 6         | 17.14               | 17.18               | 17.15                |                    |          |    |   |  |  |  |  |  |  |

| Band 38 Ant1 DSI2 Standalone |            |         |           |                       |                          |                        |                     |          |  |
|------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                     | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                      |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |  |
| Frequency (MHz)              |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20                           | QPSK       | 1       | 0         | 18.70                 | 18.87                    | 18.76                  | 19.8                | 0        |  |
| 20                           | QPSK       | 1       | 49        | 18.58                 | 18.69                    | 18.68                  |                     |          |  |
| 20                           | QPSK       | 1       | 99        | 18.64                 | 18.74                    | 18.56                  |                     |          |  |
| 20                           | QPSK       | 50      | 0         | 18.61                 | 18.73                    | 18.69                  | 19.8                | 0        |  |
| 20                           | QPSK       | 50      | 24        | 18.47                 | 18.59                    | 18.55                  |                     |          |  |
| 20                           | QPSK       | 50      | 50        | 18.63                 | 18.54                    | 18.46                  |                     |          |  |
| 20                           | QPSK       | 100     | 0         | 18.55                 | 18.63                    | 18.48                  | 19.8                | 0        |  |
| 20                           | 16QAM      | 1       | 0         | 18.61                 | 18.64                    | 18.73                  |                     |          |  |
| 20                           | 16QAM      | 1       | 49        | 18.52                 | 18.48                    | 18.58                  |                     |          |  |
| 20                           | 16QAM      | 1       | 99        | 18.62                 | 18.63                    | 18.57                  | 19.8                | 0        |  |
| 20                           | 16QAM      | 50      | 0         | 18.60                 | 18.66                    | 18.57                  |                     |          |  |
| 20                           | 16QAM      | 50      | 24        | 18.42                 | 18.46                    | 18.57                  |                     |          |  |
| 20                           | 16QAM      | 50      | 50        | 18.54                 | 18.56                    | 18.40                  | 19.8                | 0        |  |
| 20                           | 16QAM      | 100     | 0         | 18.48                 | 18.55                    | 18.41                  |                     |          |  |
| 20                           | 64QAM      | 1       | 0         | 18.50                 | 18.63                    | 18.64                  |                     |          |  |
| 20                           | 64QAM      | 1       | 49        | 18.35                 | 18.57                    | 18.46                  | 19.8                | 0        |  |
| 20                           | 64QAM      | 1       | 99        | 18.52                 | 18.58                    | 18.49                  |                     |          |  |
| 20                           | 64QAM      | 50      | 0         | 18.43                 | 18.44                    | 18.36                  |                     |          |  |
| 20                           | 64QAM      | 50      | 24        | 18.29                 | 18.21                    | 18.26                  | 19.8                | 0        |  |
| 20                           | 64QAM      | 50      | 50        | 18.23                 | 18.22                    | 18.26                  |                     |          |  |
| 20                           | 64QAM      | 100     | 0         | 18.34                 | 18.35                    | 18.47                  |                     |          |  |
| 20                           | 256QAM     | 1       | 0         | 17.37                 | 17.42                    | 17.40                  | 19                  | 0.8      |  |
| 20                           | 256QAM     | 1       | 49        | 17.24                 | 17.31                    | 17.18                  |                     |          |  |
| 20                           | 256QAM     | 1       | 99        | 17.23                 | 17.24                    | 17.14                  |                     |          |  |
| 20                           | 256QAM     | 50      | 0         | 17.36                 | 17.36                    | 17.40                  | 19                  | 0.8      |  |
| 20                           | 256QAM     | 50      | 24        | 17.20                 | 17.35                    | 17.18                  |                     |          |  |
| 20                           | 256QAM     | 50      | 50        | 17.22                 | 17.28                    | 17.18                  |                     |          |  |
| 20                           | 256QAM     | 100     | 0         | 17.25                 | 17.29                    | 17.17                  |                     |          |  |
| Channel                      |            |         |           | 37825                 | 38000                    | 38175                  |                     |          |  |
| Frequency (MHz)              |            |         |           | 2577.5                | 2595                     | 2612.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15                           | QPSK       | 1       | 0         | 18.56                 | 18.68                    | 18.59                  | 19.8                | 0        |  |
| 15                           | QPSK       | 1       | 37        | 18.52                 | 18.68                    | 18.49                  |                     |          |  |
| 15                           | QPSK       | 1       | 74        | 18.54                 | 18.56                    | 18.47                  |                     |          |  |
| 15                           | QPSK       | 36      | 0         | 18.46                 | 18.62                    | 18.53                  | 19.8                | 0        |  |
| 15                           | QPSK       | 36      | 20        | 18.41                 | 18.46                    | 18.48                  |                     |          |  |
| 15                           | QPSK       | 36      | 39        | 18.49                 | 18.50                    | 18.32                  |                     |          |  |
| 15                           | QPSK       | 75      | 0         | 18.44                 | 18.52                    | 18.31                  | 19.8                | 0        |  |
| 15                           | 16QAM      | 1       | 0         | 18.46                 | 18.64                    | 18.64                  |                     |          |  |
| 15                           | 16QAM      | 1       | 37        | 18.51                 | 18.40                    | 18.45                  |                     |          |  |
| 15                           | 16QAM      | 1       | 74        | 18.46                 | 18.61                    | 18.44                  | 19.8                | 0        |  |
| 15                           | 16QAM      | 36      | 0         | 18.40                 | 18.49                    | 18.47                  |                     |          |  |
| 15                           | 16QAM      | 36      | 20        | 18.39                 | 18.39                    | 18.46                  |                     |          |  |
| 15                           | 16QAM      | 36      | 39        | 18.39                 | 18.51                    | 18.31                  | 19.8                | 0        |  |
| 15                           | 16QAM      | 75      | 0         | 18.40                 | 18.50                    | 18.24                  |                     |          |  |
| 15                           | 64QAM      | 1       | 0         | 18.42                 | 18.53                    | 18.56                  |                     |          |  |
| 15                           | 64QAM      | 1       | 37        | 18.30                 | 18.46                    | 18.34                  | 19.8                | 0        |  |
| 15                           | 64QAM      | 1       | 74        | 18.47                 | 18.43                    | 18.31                  |                     |          |  |
| 15                           | 64QAM      | 36      | 0         | 18.31                 | 18.38                    | 18.20                  |                     |          |  |
| 15                           | 64QAM      | 36      | 20        | 18.19                 | 18.16                    | 18.17                  | 19.8                | 0        |  |
| 15                           | 64QAM      | 36      | 39        | 18.18                 | 18.18                    | 18.15                  |                     |          |  |
| 15                           | 64QAM      | 75      | 0         | 18.25                 | 18.29                    | 18.23                  |                     |          |  |
| 15                           | 256QAM     | 1       | 0         | 17.29                 | 17.28                    | 17.28                  | 19                  | 0.8      |  |
| 15                           | 256QAM     | 1       | 37        | 17.17                 | 17.21                    | 17.03                  |                     |          |  |
| 15                           | 256QAM     | 1       | 74        | 17.08                 | 17.18                    | 17.00                  |                     |          |  |
| 15                           | 256QAM     | 36      | 0         | 17.22                 | 17.30                    | 17.31                  | 19                  | 0.8      |  |
| 15                           | 256QAM     | 36      | 20        | 17.08                 | 17.25                    | 17.05                  |                     |          |  |
| 15                           | 256QAM     | 36      | 39        | 17.13                 | 17.14                    | 17.06                  |                     |          |  |
| 15                           | 256QAM     | 75      | 0         | 17.17                 | 17.19                    | 17.05                  |                     |          |  |
| Channel                      |            |         |           | 37800                 | 38000                    | 38200                  |                     |          |  |
| Frequency (MHz)              |            |         |           | 2575                  | 2595                     | 2615                   | Tune-up limit (dBm) | MPR (dB) |  |
| 10                           | QPSK       | 1       | 0         | 18.52                 | 18.74                    | 18.67                  | 19.8                | 0        |  |
| 10                           | QPSK       | 1       | 25        | 18.53                 | 18.57                    | 18.56                  |                     |          |  |
| 10                           | QPSK       | 1       | 49        | 18.53                 | 18.48                    | 18.53                  |                     |          |  |
| 10                           | QPSK       | 25      | 0         | 18.46                 | 18.67                    | 18.62                  | 19.8                | 0        |  |
| 10                           | QPSK       | 25      | 12        | 18.34                 | 18.45                    | 18.46                  |                     |          |  |
| 10                           | QPSK       | 25      | 25        | 18.48                 | 18.58                    | 18.25                  |                     |          |  |
| 10                           | QPSK       | 50      | 0         | 18.46                 | 18.59                    | 18.29                  | 19.8                | 0        |  |
| 10                           | 16QAM      | 1       | 0         | 18.54                 | 18.60                    | 18.60                  |                     |          |  |
| 10                           | 16QAM      | 1       | 25        | 18.49                 | 18.37                    | 18.48                  |                     |          |  |
| 10                           | 16QAM      | 1       | 49        | 18.42                 | 18.52                    | 18.42                  | 19.8                | 0        |  |
| 10                           | 16QAM      | 25      | 0         | 18.49                 | 18.46                    | 18.45                  |                     |          |  |
| 10                           | 16QAM      | 25      | 12        | 18.35                 | 18.37                    | 18.50                  |                     |          |  |
| 10                           | 16QAM      | 25      | 25        | 18.43                 | 18.55                    | 18.31                  | 19.8                | 0        |  |
| 10                           | 16QAM      | 50      | 0         | 18.36                 | 18.47                    | 18.29                  |                     |          |  |
| 10                           | 64QAM      | 1       | 0         | 18.48                 | 18.50                    | 18.57                  |                     |          |  |
| 10                           | 64QAM      | 1       | 25        | 18.27                 | 18.36                    | 18.30                  | 19.8                | 0        |  |
| 10                           | 64QAM      | 1       | 49        | 18.43                 | 18.43                    | 18.37                  |                     |          |  |
| 10                           | 64QAM      | 25      | 0         | 18.41                 | 18.37                    | 18.16                  |                     |          |  |
| 10                           | 64QAM      | 25      | 12        | 18.16                 | 18.07                    | 18.22                  | 19.8                | 0        |  |
| 10                           | 64QAM      | 25      | 25        | 18.14                 | 18.14                    | 18.10                  |                     |          |  |
| 10                           | 64QAM      | 50      | 0         | 18.25                 | 18.36                    | 18.30                  |                     |          |  |
| 10                           | 256QAM     | 1       | 0         | 17.29                 | 17.35                    | 17.27                  | 19                  | 0.8      |  |
| 10                           | 256QAM     | 1       | 25        | 17.10                 | 17.20                    | 17.10                  |                     |          |  |
| 10                           | 256QAM     | 1       | 49        | 17.10                 | 17.18                    | 17.03                  |                     |          |  |
| 10                           | 256QAM     | 25      | 0         | 17.26                 | 17.29                    | 17.27                  | 19                  | 0.8      |  |
| 10                           | 256QAM     | 25      | 12        | 17.09                 | 17.26                    | 17.03                  |                     |          |  |
| 10                           | 256QAM     | 25      | 25        | 17.14                 | 17.23                    | 17.12                  |                     |          |  |
| 10                           | 256QAM     | 50      | 0         | 17.18                 | 17.21                    | 17.03                  |                     |          |  |
| Channel                      |            |         |           | 37775                 | 38000                    | 38225                  |                     |          |  |
| Frequency (MHz)              |            |         |           | 2572.5                | 2595                     | 2617.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| 5                            | QPSK       | 1       | 0         | 18.62                 | 18.65                    | 18.61                  | 19.8                | 0        |  |
| 5                            | QPSK       | 1       | 12        | 18.44                 | 18.61                    | 18.48                  |                     |          |  |
| 5                            | QPSK       | 1       | 24        | 18.56                 | 18.58                    | 18.51                  |                     |          |  |
| 5                            | QPSK       | 12      | 0         | 18.49                 | 18.65                    | 18.54                  | 19.8                | 0        |  |
| 5                            | QPSK       | 12      | 7         | 18.35                 | 18.45                    | 18.41                  |                     |          |  |
| 5                            | QPSK       | 12      | 13        | 18.43                 | 18.46                    | 18.26                  |                     |          |  |
| 5                            | QPSK       | 25      | 0         | 18.36                 | 18.57                    | 18.31                  | 19.8                | 0        |  |
| 5                            | 16QAM      | 1       | 0         | 18.53                 | 18.55                    | 18.66                  |                     |          |  |
| 5                            | 16QAM      | 1       | 12        | 18.49                 | 18.39                    | 18.55                  |                     |          |  |
| 5                            | 16QAM      | 1       | 24        | 18.41                 | 18.54                    | 18.44                  | 19.8                | 0        |  |
| 5                            | 16QAM      | 12      | 0         | 18.39                 | 18.43                    | 18.47                  |                     |          |  |
| 5                            | 16QAM      | 12      | 7         | 18.37                 | 18.37                    | 18.47                  |                     |          |  |
| 5                            | 16QAM      | 12      | 13        | 18.41                 | 18.53                    | 18.26                  | 19.8                | 0        |  |
| 5                            | 16QAM      | 25      | 0         | 18.46                 | 18.43                    | 18.32                  |                     |          |  |
| 5                            | 64QAM      | 1       | 0         | 18.46                 | 18.52                    | 18.49                  |                     |          |  |
| 5                            | 64QAM      | 1       | 12        | 18.22                 | 18.37                    | 18.30                  | 19.8                | 0        |  |
| 5                            | 64QAM      | 1       | 24        | 18.45                 | 18.51                    | 18.30                  |                     |          |  |
| 5                            | 64QAM      | 12      | 0         | 18.34                 | 18.41                    | 18.15                  |                     |          |  |
| 5                            | 64QAM      | 12      | 7         | 18.24                 | 18.14                    | 18.15                  | 19.8                | 0        |  |
| 5                            | 64QAM      | 12      | 13        | 18.14                 | 18.18                    | 18.17                  |                     |          |  |
| 5                            | 64QAM      | 25      | 0         | 18.32                 | 18.27                    | 18.22                  |                     |          |  |
| 5                            | 256QAM     | 1       | 0         | 17.24                 | 17.29                    | 17.19                  | 19                  | 0.8      |  |
| 5                            | 256QAM     | 1       | 12        | 17.03                 | 17.12                    | 17.02                  |                     |          |  |
| 5                            | 256QAM     | 1       | 24        | 17.03                 | 17.07                    | 17.05                  |                     |          |  |
| 5                            | 256QAM     | 12      | 0         | 17.18                 | 17.21                    | 17.20                  | 19                  | 0.8      |  |
| 5                            | 256QAM     | 12      | 7         | 17.13                 | 17.17                    | 17.12                  |                     |          |  |
| 5                            | 256QAM     | 12      | 13        | 17.04                 | 17.18                    | 17.06                  |                     |          |  |
| 5                            | 256QAM     | 25      | 0         | 17.12                 | 17.15                    | 17.11                  |                     |          |  |
| Channel                      |            |         |           | 37750                 | 38000                    | 38150                  |                     |          |  |
| Frequency (MHz)              |            |         |           | 2570                  | 2595                     | 2610                   | Tune-up limit (dBm) | MPR (dB) |  |

| Band 41 Ant1 DSI2 Standalone |            |         |           |                       |                              |                          |                               |                        |                     |          |
|------------------------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| 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) | MPR (dB) |
| Channel                      |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |          |
| Frequency (MHz)              |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20                           | QPSK       | 1       | 0         | 18.79                 | 18.81                        | 18.92                    | 18.84                         | 18.79                  | 19.8                | 0        |
| 20                           | QPSK       | 1       | 49        | 18.63                 | 18.71                        | 18.76                    | 18.75                         | 18.74                  |                     |          |
| 20                           | QPSK       | 1       | 99        | 18.65                 | 18.76                        | 18.80                    | 18.69                         | 18.77                  |                     |          |
| 20                           | QPSK       | 50      | 0         | 18.74                 | 18.74                        | 18.79                    | 18.78                         | 18.66                  |                     |          |
| 20                           | QPSK       | 50      | 24        | 18.54                 | 18.63                        | 18.69                    | 18.65                         | 18.59                  | 19.8                | 0        |
| 20                           | QPSK       | 50      | 50        | 18.58                 | 18.70                        | 18.67                    | 18.54                         | 18.67                  |                     |          |
| 20                           | QPSK       | 100     | 0         | 18.52                 | 18.62                        | 18.70                    | 18.54                         | 18.62                  |                     |          |
| 20                           | 16QAM      | 1       | 0         | 18.68                 | 18.68                        | 18.77                    | 18.79                         | 18.74                  |                     |          |
| 20                           | 16QAM      | 1       | 49        | 18.50                 | 18.67                        | 18.63                    | 18.71                         | 18.68                  | 19.8                | 0        |
| 20                           | 16QAM      | 1       | 99        | 18.61                 | 18.68                        | 18.71                    | 18.63                         | 18.66                  |                     |          |
| 20                           | 16QAM      | 50      | 0         | 18.67                 | 18.66                        | 18.75                    | 18.63                         | 18.60                  |                     |          |
| 20                           | 16QAM      | 50      | 24        | 18.51                 | 18.55                        | 18.56                    | 18.63                         | 18.63                  |                     |          |
| 20                           | 16QAM      | 50      | 50        | 18.54                 | 18.61                        | 18.68                    | 18.55                         | 18.65                  | 19.8                | 0        |
| 20                           | 16QAM      | 100     | 0         | 18.51                 | 18.59                        | 18.67                    | 18.51                         | 18.58                  |                     |          |
| 20                           | 64QAM      | 1       | 0         | 18.59                 | 18.65                        | 18.72                    | 18.71                         | 18.64                  |                     |          |
| 20                           | 64QAM      | 1       | 49        | 18.50                 | 18.50                        | 18.65                    | 18.58                         | 18.63                  |                     |          |
| 20                           | 64QAM      | 1       | 99        | 18.50                 | 18.61                        | 18.62                    | 18.57                         | 18.61                  | 19.8                | 0        |
| 20                           | 64QAM      | 50      | 0         | 18.47                 | 18.54                        | 18.55                    | 18.46                         | 18.65                  |                     |          |
| 20                           | 64QAM      | 50      | 24        | 18.39                 | 18.42                        | 18.36                    | 18.39                         | 18.52                  |                     |          |
| 20                           | 64QAM      | 50      | 50        | 18.30                 | 18.34                        | 18.36                    | 18.33                         | 18.53                  |                     |          |
| 20                           | 64QAM      | 100     | 0         | 18.47                 | 18.41                        | 18.46                    | 18.52                         | 18.54                  | 19.8                | 0        |
| 20                           | 256QAM     | 1       | 0         | 17.19                 | 17.22                        | 17.30                    | 17.22                         | 17.22                  |                     |          |
| 20                           | 256QAM     | 1       | 49        | 17.05                 | 17.14                        | 17.21                    | 17.18                         | 17.10                  |                     |          |
| 20                           | 256QAM     | 1       | 99        | 17.06                 | 17.14                        | 17.20                    | 17.10                         | 17.12                  |                     |          |
| 20                           | 256QAM     | 50      | 0         | 17.12                 | 17.28                        | 17.32                    | 17.25                         | 17.21                  | 19                  | 0.8      |
| 20                           | 256QAM     | 50      | 24        | 17.13                 | 17.16                        | 17.18                    | 17.12                         | 17.15                  |                     |          |
| 20                           | 256QAM     | 50      | 50        | 17.10                 | 17.16                        | 17.13                    | 17.14                         | 17.16                  |                     |          |
| 20                           | 256QAM     | 100     | 0         | 17.13                 | 17.25                        | 17.33                    | 17.24                         | 17.23                  |                     |          |
| Channel                      |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |          |
| 15                           | QPSK       | 1       | 0         | 18.73                 | 18.75                        | 18.80                    | 18.76                         | 18.69                  | 19.80               | 0        |
| 15                           | QPSK       | 1       | 37        | 18.50                 | 18.67                        | 18.69                    | 18.64                         | 18.70                  |                     |          |
| 15                           | QPSK       | 1       | 74        | 18.49                 | 18.71                        | 18.72                    | 18.56                         | 18.65                  |                     |          |
| 15                           | QPSK       | 36      | 0         | 18.62                 | 18.65                        | 18.68                    | 18.67                         | 18.56                  |                     |          |
| 15                           | QPSK       | 36      | 20        | 18.42                 | 18.51                        | 18.54                    | 18.55                         | 18.45                  | 19.8                | 0        |
| 15                           | QPSK       | 36      | 39        | 18.50                 | 18.54                        | 18.51                    | 18.42                         | 18.62                  |                     |          |
| 15                           | QPSK       | 75      | 0         | 18.42                 | 18.49                        | 18.59                    | 18.48                         | 18.57                  |                     |          |
| 15                           | 16QAM      | 1       | 0         | 18.63                 | 18.54                        | 18.66                    | 18.71                         | 18.69                  |                     |          |
| 15                           | 16QAM      | 1       | 37        | 18.43                 | 18.57                        | 18.56                    | 18.58                         | 18.61                  | 19.8                | 0        |
| 15                           | 16QAM      | 1       | 74        | 18.51                 | 18.63                        | 18.57                    | 18.56                         | 18.55                  |                     |          |
| 15                           | 16QAM      | 36      | 0         | 18.61                 | 18.53                        | 18.63                    | 18.48                         | 18.54                  |                     |          |
| 15                           | 16QAM      | 36      | 20        | 18.46                 | 18.43                        | 18.46                    | 18.55                         | 18.47                  |                     |          |
| 15                           | 16QAM      | 36      | 39        | 18.42                 | 18.54                        | 18.59                    | 18.43                         | 18.58                  | 19.8                | 0        |
| 15                           | 16QAM      | 75      | 0         | 18.42                 | 18.54                        | 18.58                    | 18.44                         | 18.47                  |                     |          |
| 15                           | 64QAM      | 1       | 0         | 18.47                 | 18.57                        | 18.61                    | 18.65                         | 18.49                  |                     |          |
| 15                           | 64QAM      | 1       | 37        | 18.38                 | 18.42                        | 18.50                    | 18.48                         | 18.55                  |                     |          |
| 15                           | 64QAM      | 1       | 74        | 18.39                 | 18.56                        | 18.57                    | 18.48                         | 18.55                  | 19.8                | 0        |
| 15                           | 64QAM      | 36      | 0         | 18.41                 | 18.46                        | 18.50                    | 18.41                         | 18.53                  |                     |          |
| 15                           | 64QAM      | 36      | 20        | 18.31                 | 18.28                        | 18.32                    | 18.32                         | 18.42                  |                     |          |
| 15                           | 64QAM      | 36      | 39        | 18.14                 | 18.19                        | 18.27                    | 18.26                         | 18.41                  |                     |          |
| 15                           | 64QAM      | 75      | 0         | 18.37                 | 18.30                        | 18.42                    | 18.47                         | 18.47                  | 19                  | 0.8      |
| 15                           | 256QAM     | 1       | 0         | 17.10                 | 17.10                        | 17.18                    | 17.08                         | 17.15                  |                     |          |
| 15                           | 256QAM     | 1       | 37        | 17.11                 | 17.00                        | 17.12                    | 17.08                         | 17.06                  |                     |          |
| 15                           | 256QAM     | 1       | 74        | 17.05                 | 17.01                        | 17.06                    | 17.03                         | 17.00                  |                     |          |
| 15                           | 256QAM     | 36      | 0         | 17.00                 | 17.14                        | 17.18                    | 17.10                         | 17.14                  | 19                  | 0.8      |
| 15                           | 256QAM     | 36      | 20        | 17.03                 | 17.04                        | 17.07                    | 17.12                         | 17.05                  |                     |          |
| 15                           | 256QAM     | 36      | 39        | 17.02                 | 17.01                        | 17.08                    | 17.00                         | 17.02                  |                     |          |
| 15                           | 256QAM     | 75      | 0         | 17.06                 | 17.12                        | 17.22                    | 17.10                         | 17.12                  |                     |          |
| Channel                      |            |         |           | 39700                 | 40160                        | 40620                    | 41080                         | 41540                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 2501                  | 2547                         | 2593                     | 2639                          | 2685                   |                     |          |
| 10                           | QPSK       | 1       | 0         | 18.73                 | 18.69                        | 18.78                    | 18.77                         | 18.71                  | 19.80               | 0        |
| 10                           | QPSK       | 1       | 25        | 18.54                 | 18.63                        | 18.63                    | 18.68                         | 18.68                  |                     |          |
| 10                           | QPSK       | 1       | 49        | 18.50                 | 18.69                        | 18.66                    | 18.57                         | 18.63                  |                     |          |
| 10                           | QPSK       | 25      | 0         | 18.64                 | 18.62                        | 18.66                    | 18.72                         | 18.60                  |                     |          |
| 10                           | QPSK       | 25      | 12        | 18.49                 | 18.58                        | 18.61                    | 18.53                         | 18.46                  | 19.8                | 0        |
| 10                           | QPSK       | 25      | 25        | 18.47                 | 18.55                        | 18.62                    | 18.47                         | 18.61                  |                     |          |
| 10                           | QPSK       | 50      | 0         | 18.39                 | 18.51                        | 18.56                    | 18.39                         | 18.53                  |                     |          |
| 10                           | 16QAM      | 1       | 0         | 18.56                 | 18.54                        | 18.65                    | 18.72                         | 18.70                  |                     |          |
| 10                           | 16QAM      | 1       | 25        | 18.42                 | 18.52                        | 18.55                    | 18.66                         | 18.63                  | 19.8                | 0        |
| 10                           | 16QAM      | 1       | 49        | 18.50                 | 18.60                        | 18.58                    | 18.56                         | 18.59                  |                     |          |
| 10                           | 16QAM      | 25      | 0         | 18.53                 | 18.51                        | 18.61                    | 18.55                         | 18.45                  |                     |          |
| 10                           | 16QAM      | 25      | 12        | 18.39                 | 18.45                        | 18.43                    | 18.52                         | 18.50                  |                     |          |
| 10                           | 16QAM      | 25      | 25        | 18.40                 | 18.52                        | 18.53                    | 18.41                         | 18.54                  | 19.8                | 0        |
| 10                           | 16QAM      | 50      | 0         | 18.46                 | 18.48                        | 18.53                    | 18.38                         | 18.43                  |                     |          |
| 10                           | 64QAM      | 1       | 0         | 18.51                 | 18.51                        | 18.62                    | 18.66                         | 18.53                  |                     |          |
| 10                           | 64QAM      | 1       | 25        | 18.34                 | 18.42                        | 18.60                    | 18.49                         | 18.58                  |                     |          |
| 10                           | 64QAM      | 1       | 49        | 18.45                 | 18.54                        | 18.55                    | 18.46                         | 18.49                  | 19.8                | 0        |
| 10                           | 64QAM      | 25      | 0         | 18.34                 | 18.49                        | 18.42                    | 18.34                         | 18.55                  |                     |          |
| 10                           | 64QAM      | 25      | 12        | 18.28                 | 18.30                        | 18.31                    | 18.32                         | 18.48                  |                     |          |
| 10                           | 64QAM      | 25      | 25        | 18.17                 | 18.23                        | 18.23                    | 18.19                         | 18.38                  |                     |          |
| 10                           | 64QAM      | 50      | 0         | 18.36                 | 18.36                        | 18.31                    | 18.47                         | 18.39                  | 19                  | 0.8      |
| 10                           | 256QAM     | 1       | 0         | 17.11                 | 17.07                        | 17.17                    | 17.16                         | 17.09                  |                     |          |
| 10                           | 256QAM     | 1       | 25        | 17.05                 | 17.03                        | 17.08                    | 17.07                         | 17.03                  |                     |          |
| 10                           | 256QAM     | 1       | 49        | 17.15                 | 17.05                        | 17.12                    | 17.07                         | 17.00                  |                     |          |
| 10                           | 256QAM     | 25      | 0         | 17.11                 | 17.20                        | 17.22                    | 17.16                         | 17.12                  | 19                  | 0.8      |
| 10                           | 256QAM     | 25      | 12        | 17.07                 | 17.03                        | 17.08                    | 17.07                         | 17.05                  |                     |          |
| 10                           | 256QAM     | 25      | 25        | 17.02                 | 17.04                        | 17.05                    | 17.05                         | 17.02                  |                     |          |
| 10                           | 256QAM     | 50      | 0         | 17.02                 | 17.18                        | 17.27                    | 17.12                         | 17.14                  |                     |          |
| Channel                      |            |         |           | 39675                 | 40148                        | 40620                    | 41093                         | 41565                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 2498.5                | 2545.8                       | 2593                     | 2640.30                       | 2687.5                 |                     |          |
| 5                            | QPSK       | 1       | 0         | 18.69                 | 18.72                        | 18.76                    | 18.68                         | 18.73                  | 19.80               | 0        |
| 5                            | QPSK       | 1       | 12        | 18.52                 | 18.56                        | 18.68                    | 18.70                         | 18.62                  |                     |          |
| 5                            | QPSK       | 1       | 24        | 18.51                 | 18.62                        | 18.67                    | 18.53                         | 18.62                  |                     |          |
| 5                            | QPSK       | 12      | 0         | 18.65                 | 18.66                        | 18.63                    | 18.69                         | 18.52                  |                     |          |
| 5                            | QPSK       | 12      | 7         | 18.48                 | 18.48                        | 18.53                    | 18.58                         | 18.49                  | 19.8                | 0        |
| 5                            | QPSK       | 12      | 13        | 18.45                 | 18.64                        | 18.58                    | 18.39                         | 18.56                  |                     |          |
| 5                            | QPSK       | 25      | 0         | 18.38                 | 18.50                        | 18.63                    | 18.45                         | 18.50                  |                     |          |
| 5                            | 16QAM      | 1       | 0         | 18.63                 | 18.61                        | 18.65                    | 18.66                         | 18.70                  |                     |          |
| 5                            | 16QAM      | 1       | 12        | 18.39                 | 18.61                        | 18.52                    | 18.64                         | 18.61                  | 19.8                | 0        |
| 5                            | 16QAM      | 1       | 24        | 18.45                 | 18.58                        | 18.58                    | 18.52                         | 18.51                  |                     |          |
| 5                            | 16QAM      | 12      | 0         | 18.59                 | 18.60                        | 18.63                    | 18.49                         | 18.55                  |                     |          |
| 5                            | 16QAM      | 12      | 7         | 18.37                 | 18.40                        | 18.51                    | 18.53                         | 18.49                  |                     |          |
| 5                            | 16QAM      | 12      | 13        | 18.48                 | 18.45                        | 18.56                    | 18.42                         | 18.51                  | 19.8                | 0        |
| 5                            | 16QAM      | 25      | 0         | 18.40                 | 18.50                        | 18.59                    | 18.36                         | 18.47                  |                     |          |
| 5                            | 64QAM      | 1       | 0         | 18.55                 | 18.55                        | 18.67                    | 18.67                         | 18.57                  |                     |          |
| 5                            | 64QAM      | 1       | 12        | 18.38                 | 18.38                        | 18.59                    | 18.42                         | 18.55                  |                     |          |
| 5                            | 64QAM      | 1       | 24        | 18.39                 | 18.51                        | 18.53                    | 18.44                         | 18.48                  | 19.8                | 0        |
| 5                            | 64QAM      | 12      | 0         | 18.37                 | 18.48                        | 18.48                    | 18.30                         | 18.60                  |                     |          |
| 5                            | 64QAM      | 12      | 7         | 18.25                 | 18.38                        | 18.30                    | 18.33                         | 18.38                  |                     |          |
| 5                            | 64QAM      | 12      | 13        | 18.17                 | 18.22                        | 18.22                    | 18.28                         | 18.47                  |                     |          |
| 5                            | 64QAM      | 25      | 0         | 18.34                 | 18.34                        | 18.34                    | 18.43                         | 18.46                  | 19                  | 0.8      |
| 5                            | 256QAM     | 1       | 0         | 17.07                 | 17.09                        | 17.24                    | 17.12                         | 17.07                  |                     |          |
| 5                            | 256QAM     | 1       | 12        | 17.04                 | 17.06                        | 17.11                    | 17.05                         | 17.01                  |                     |          |
| 5                            | 256QAM     | 1       | 24        | 17.08                 | 17.06                        | 17.15                    | 17.12                         | 17.04                  |                     |          |
| 5                            | 256QAM     | 12      | 0         | 17.04                 | 17.16                        | 17.19                    | 17.16                         | 17.14                  | 19                  | 0.8      |
| 5                            | 256QAM     | 12      | 7         | 17.06                 | 17.03                        | 17.09                    | 17.05                         | 17.05                  |                     |          |
| 5                            | 256QAM     | 12      | 13        | 17.13                 | 17.10                        | 17.00                    | 17.09                         | 17.05                  |                     |          |
| 5                            | 256QAM     | 25      | 0         | 17.01                 | 17.10                        | 17.19                    | 17.16                         | 17.17                  |                     |          |

**Band 42 Part 27Q Ant2 DSI2 Standalone**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Mid-Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|-----------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 42190                 | 42590                 | 42990                  |                     |          |
| Frequency (MHz) |            |         |           | 3460                  | 3500                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 0         | 19.18                 | 19.34                 | 18.91                  | 20.6                | 0        |
| 20              | QPSK       | 1       | 49        | 19.00                 | 19.31                 | 18.94                  |                     |          |
| 20              | QPSK       | 1       | 99        | 19.07                 | 19.25                 | 19.04                  |                     |          |
| 20              | QPSK       | 50      | 0         | 19.06                 | 19.23                 | 18.83                  | 20.6                | 0        |
| 20              | QPSK       | 50      | 24        | 18.88                 | 19.21                 | 18.78                  |                     |          |
| 20              | QPSK       | 50      | 50        | 19.00                 | 19.16                 | 18.95                  |                     |          |
| 20              | QPSK       | 100     | 0         | 18.96                 | 19.17                 | 18.95                  | 20.6                | 0        |
| 20              | 16QAM      | 1       | 0         | 19.10                 | 19.23                 | 18.83                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 18.91                 | 19.24                 | 18.79                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 18.97                 | 19.10                 | 18.89                  | 20.6                | 0        |
| 20              | 16QAM      | 50      | 0         | 19.00                 | 19.13                 | 18.75                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 18.84                 | 19.14                 | 18.82                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 18.96                 | 19.06                 | 18.93                  | 20.6                | 0        |
| 20              | 16QAM      | 100     | 0         | 18.93                 | 19.14                 | 18.91                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 19.05                 | 19.21                 | 18.75                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 18.80                 | 19.22                 | 18.73                  | 20.6                | 0        |
| 20              | 64QAM      | 1       | 99        | 18.91                 | 19.16                 | 18.89                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 19.07                 | 19.08                 | 19.18                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 18.98                 | 19.00                 | 19.12                  | 20.6                | 0        |
| 20              | 64QAM      | 50      | 50        | 18.95                 | 18.93                 | 18.89                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 18.98                 | 18.96                 | 19.07                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 17.50                 | 17.71                 | 17.36                  | 19                  | 1.6      |
| 20              | 256QAM     | 1       | 49        | 17.37                 | 17.65                 | 17.37                  |                     |          |
| 20              | 256QAM     | 1       | 99        | 17.43                 | 17.63                 | 17.41                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 17.59                 | 17.69                 | 17.37                  | 19                  | 1.6      |
| 20              | 256QAM     | 50      | 24        | 17.40                 | 17.64                 | 17.32                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 17.38                 | 17.64                 | 17.40                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 17.51                 | 17.70                 | 17.35                  |                     |          |
| Channel         |            |         |           | 42165                 | 42590                 | 43015                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3500                  | 3542.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 19.11                 | 19.24                 | 18.85                  |                     |          |
| 15              | QPSK       | 1       | 37        | 18.85                 | 19.20                 | 18.80                  |                     |          |
| 15              | QPSK       | 1       | 74        | 18.93                 | 19.20                 | 18.96                  |                     |          |
| 15              | QPSK       | 36      | 0         | 19.01                 | 19.10                 | 18.69                  | 20.6                | 0        |
| 15              | QPSK       | 36      | 20        | 18.73                 | 19.18                 | 18.68                  |                     |          |
| 15              | QPSK       | 36      | 39        | 18.85                 | 19.05                 | 18.85                  |                     |          |
| 15              | QPSK       | 75      | 0         | 18.86                 | 19.06                 | 18.88                  | 20.6                | 0        |
| 15              | 16QAM      | 1       | 0         | 18.98                 | 19.11                 | 18.73                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 18.81                 | 19.17                 | 18.73                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 18.87                 | 18.98                 | 18.75                  | 20.6                | 0        |
| 15              | 16QAM      | 36      | 0         | 18.96                 | 19.02                 | 18.66                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 18.70                 | 19.00                 | 18.70                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 18.80                 | 18.94                 | 18.85                  | 20.6                | 0        |
| 15              | 16QAM      | 75      | 0         | 18.84                 | 19.01                 | 18.82                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 18.99                 | 19.08                 | 18.77                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 18.67                 | 19.14                 | 18.75                  | 20.6                | 0        |
| 15              | 64QAM      | 1       | 74        | 18.82                 | 19.07                 | 18.74                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 18.94                 | 19.04                 | 19.03                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 18.93                 | 18.93                 | 19.04                  | 20.6                | 0        |
| 15              | 64QAM      | 36      | 39        | 18.90                 | 18.78                 | 18.76                  |                     |          |
| 15              | 64QAM      | 75      | 0         | 18.92                 | 18.90                 | 18.93                  |                     |          |
| 15              | 256QAM     | 1       | 0         | 17.37                 | 17.61                 | 17.23                  | 19                  | 1.6      |
| 15              | 256QAM     | 1       | 37        | 17.29                 | 17.50                 | 17.23                  |                     |          |
| 15              | 256QAM     | 1       | 74        | 17.34                 | 17.52                 | 17.28                  |                     |          |
| 15              | 256QAM     | 36      | 0         | 17.48                 | 17.60                 | 17.27                  | 19                  | 1.6      |
| 15              | 256QAM     | 36      | 20        | 17.31                 | 17.56                 | 17.26                  |                     |          |
| 15              | 256QAM     | 36      | 39        | 17.25                 | 17.52                 | 17.35                  |                     |          |
| 15              | 256QAM     | 75      | 0         | 17.40                 | 17.58                 | 17.28                  |                     |          |
| Channel         |            |         |           | 42140                 | 42590                 | 43040                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455                  | 3500                  | 3545                   |                     |          |
| 10              | QPSK       | 1       | 0         | 19.13                 | 19.26                 | 18.86                  |                     |          |
| 10              | QPSK       | 1       | 25        | 18.95                 | 19.21                 | 18.90                  |                     |          |
| 10              | QPSK       | 1       | 49        | 19.01                 | 19.18                 | 18.99                  |                     |          |
| 10              | QPSK       | 25      | 0         | 19.02                 | 19.12                 | 18.68                  | 20.6                | 0        |
| 10              | QPSK       | 25      | 12        | 18.79                 | 19.12                 | 18.67                  |                     |          |
| 10              | QPSK       | 25      | 25        | 18.85                 | 19.12                 | 18.82                  |                     |          |
| 10              | QPSK       | 50      | 0         | 18.81                 | 19.05                 | 18.87                  | 20.6                | 0        |
| 10              | 16QAM      | 1       | 0         | 18.97                 | 19.10                 | 18.67                  |                     |          |
| 10              | 16QAM      | 1       | 25        | 18.83                 | 19.14                 | 18.68                  |                     |          |
| 10              | 16QAM      | 1       | 49        | 18.88                 | 18.99                 | 18.77                  | 20.6                | 0        |
| 10              | 16QAM      | 25      | 0         | 18.85                 | 19.06                 | 18.70                  |                     |          |
| 10              | 16QAM      | 25      | 12        | 18.73                 | 19.01                 | 18.72                  |                     |          |
| 10              | 16QAM      | 25      | 25        | 18.87                 | 18.91                 | 18.87                  | 20.6                | 0        |
| 10              | 16QAM      | 50      | 0         | 18.79                 | 19.08                 | 18.81                  |                     |          |
| 10              | 64QAM      | 1       | 0         | 18.93                 | 19.11                 | 18.69                  |                     |          |
| 10              | 64QAM      | 1       | 25        | 18.67                 | 19.08                 | 18.65                  | 20.6                | 0        |
| 10              | 64QAM      | 1       | 49        | 18.81                 | 19.04                 | 18.83                  |                     |          |
| 10              | 64QAM      | 25      | 0         | 18.92                 | 18.96                 | 19.05                  |                     |          |
| 10              | 64QAM      | 25      | 12        | 18.93                 | 18.95                 | 19.04                  | 20.6                | 0        |
| 10              | 64QAM      | 25      | 25        | 18.80                 | 18.87                 | 18.82                  |                     |          |
| 10              | 64QAM      | 50      | 0         | 18.85                 | 18.89                 | 19.02                  |                     |          |
| 10              | 256QAM     | 1       | 0         | 17.45                 | 17.57                 | 17.30                  | 19                  | 1.6      |
| 10              | 256QAM     | 1       | 25        | 17.28                 | 17.56                 | 17.23                  |                     |          |
| 10              | 256QAM     | 1       | 49        | 17.29                 | 17.57                 | 17.30                  |                     |          |
| 10              | 256QAM     | 25      | 0         | 17.53                 | 17.63                 | 17.26                  | 19                  | 1.6      |
| 10              | 256QAM     | 25      | 12        | 17.28                 | 17.57                 | 17.26                  |                     |          |
| 10              | 256QAM     | 25      | 25        | 17.28                 | 17.49                 | 17.26                  |                     |          |
| 10              | 256QAM     | 50      | 0         | 17.41                 | 17.62                 | 17.22                  |                     |          |
| Channel         |            |         |           | 42115                 | 42590                 | 43065                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3452.5                | 3500                  | 3547.5                 |                     |          |
| 5               | QPSK       | 1       | 0         | 19.12                 | 19.28                 | 18.79                  |                     |          |
| 5               | QPSK       | 1       | 12        | 18.94                 | 19.24                 | 18.87                  |                     |          |
| 5               | QPSK       | 1       | 24        | 19.00                 | 19.17                 | 18.90                  |                     |          |
| 5               | QPSK       | 12      | 0         | 18.91                 | 19.11                 | 18.73                  | 20.6                | 0        |
| 5               | QPSK       | 12      | 7         | 18.74                 | 19.21                 | 18.72                  |                     |          |
| 5               | QPSK       | 12      | 13        | 18.88                 | 19.12                 | 18.85                  |                     |          |
| 5               | QPSK       | 25      | 0         | 18.88                 | 19.01                 | 18.82                  | 20.6                | 0        |
| 5               | 16QAM      | 1       | 0         | 18.98                 | 19.18                 | 18.79                  |                     |          |
| 5               | 16QAM      | 1       | 12        | 18.77                 | 19.20                 | 18.72                  |                     |          |
| 5               | 16QAM      | 1       | 24        | 18.92                 | 18.97                 | 18.80                  | 20.6                | 0        |
| 5               | 16QAM      | 12      | 0         | 18.91                 | 19.02                 | 18.62                  |                     |          |
| 5               | 16QAM      | 12      | 7         | 18.72                 | 19.03                 | 18.66                  |                     |          |
| 5               | 16QAM      | 12      | 13        | 18.89                 | 18.93                 | 18.86                  | 20.6                | 0        |
| 5               | 16QAM      | 25      | 0         | 18.85                 | 19.04                 | 18.78                  |                     |          |
| 5               | 64QAM      | 1       | 0         | 18.99                 | 19.12                 | 18.64                  |                     |          |
| 5               | 64QAM      | 1       | 12        | 18.74                 | 19.11                 | 18.64                  | 20.6                | 0        |
| 5               | 64QAM      | 1       | 24        | 18.75                 | 19.07                 | 18.83                  |                     |          |
| 5               | 64QAM      | 12      | 0         | 19.00                 | 18.95                 | 19.06                  |                     |          |
| 5               | 64QAM      | 12      | 7         | 18.93                 | 18.90                 | 19.07                  | 20.6                | 0        |
| 5               | 64QAM      | 12      | 13        | 18.82                 | 18.85                 | 18.74                  |                     |          |
| 5               | 64QAM      | 25      | 0         | 18.89                 | 18.83                 | 18.96                  |                     |          |
| 5               | 256QAM     | 1       | 0         | 17.41                 | 17.60                 | 17.31                  | 19                  | 1.6      |
| 5               | 256QAM     | 1       | 12        | 17.31                 | 17.51                 | 17.28                  |                     |          |
| 5               | 256QAM     | 1       | 24        | 17.38                 | 17.55                 | 17.31                  |                     |          |
| 5               | 256QAM     | 12      | 0         | 17.49                 | 17.54                 | 17.24                  | 19                  | 1.6      |
| 5               | 256QAM     | 12      | 7         | 17.28                 | 17.49                 | 17.18                  |                     |          |
| 5               | 256QAM     | 12      | 13        | 17.27                 | 17.55                 | 17.31                  |                     |          |
| 5               | 256QAM     | 25      | 0         | 17.45                 | 17.59                 | 17.27                  |                     |          |

| Band 7 Ant5 DSI2 Standalone |            |         |           |                      |                         |                       |                     |                     |  |
|-----------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|---------------------|--|
| BW [MHz]                    | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB)            |  |
| Channel                     |            |         |           | 20850                | 21100                   | 21350                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)             |            |         |           | 2510                 | 2535                    | 2560                  |                     |                     |  |
| 20                          | QPSK       | 1       | 0         | 22.45                | 22.72                   | 22.62                 | 24                  | 0                   |  |
| 20                          | QPSK       | 1       | 49        | 22.31                | 22.62                   | 22.53                 |                     |                     |  |
| 20                          | QPSK       | 1       | 99        | 22.27                | 22.58                   | 22.47                 |                     |                     |  |
| 20                          | QPSK       | 50      | 0         | 21.67                | 21.92                   | 21.62                 | 23                  | 1                   |  |
| 20                          | QPSK       | 50      | 24        | 21.54                | 21.78                   | 21.56                 |                     |                     |  |
| 20                          | QPSK       | 50      | 50        | 21.59                | 21.81                   | 21.53                 |                     |                     |  |
| 20                          | QPSK       | 100     | 0         | 21.63                | 21.82                   | 21.75                 | 23                  | 1                   |  |
| 20                          | 16QAM      | 1       | 0         | 22.01                | 22.27                   | 22.16                 |                     |                     |  |
| 20                          | 16QAM      | 1       | 49        | 21.92                | 22.13                   | 22.09                 |                     |                     |  |
| 20                          | 16QAM      | 1       | 99        | 21.90                | 22.21                   | 22.03                 | 22                  | 2                   |  |
| 20                          | 16QAM      | 50      | 0         | 20.87                | 20.91                   | 20.66                 |                     |                     |  |
| 20                          | 16QAM      | 50      | 24        | 20.74                | 20.85                   | 20.52                 |                     |                     |  |
| 20                          | 16QAM      | 50      | 50        | 20.79                | 20.84                   | 20.56                 | 22                  | 2                   |  |
| 20                          | 16QAM      | 100     | 0         | 20.83                | 20.94                   | 20.91                 |                     |                     |  |
| 20                          | 64QAM      | 1       | 0         | 20.55                | 20.74                   | 20.48                 | 22                  | 2                   |  |
| 20                          | 64QAM      | 1       | 49        | 20.43                | 20.69                   | 20.36                 |                     |                     |  |
| 20                          | 64QAM      | 1       | 99        | 20.50                | 20.59                   | 20.33                 |                     |                     |  |
| 20                          | 64QAM      | 50      | 0         | 19.75                | 19.94                   | 19.68                 | 21                  | 3                   |  |
| 20                          | 64QAM      | 50      | 24        | 19.61                | 19.84                   | 19.55                 |                     |                     |  |
| 20                          | 64QAM      | 50      | 50        | 19.51                | 19.80                   | 19.50                 |                     |                     |  |
| 20                          | 64QAM      | 100     | 0         | 19.73                | 19.90                   | 19.86                 | 19                  | 5                   |  |
| 20                          | 256QAM     | 1       | 0         | 17.46                | 17.67                   | 17.65                 |                     |                     |  |
| 20                          | 256QAM     | 1       | 49        | 17.27                | 17.61                   | 17.52                 |                     |                     |  |
| 20                          | 256QAM     | 1       | 99        | 17.25                | 17.56                   | 17.44                 | 19                  | 5                   |  |
| 20                          | 256QAM     | 50      | 0         | 17.43                | 17.72                   | 17.67                 |                     |                     |  |
| 20                          | 256QAM     | 50      | 24        | 17.32                | 17.59                   | 17.49                 |                     |                     |  |
| 20                          | 256QAM     | 50      | 50        | 17.31                | 17.53                   | 17.50                 | 19                  | 5                   |  |
| 20                          | 256QAM     | 100     | 0         | 17.26                | 17.44                   | 17.35                 |                     |                     |  |
| Channel                     |            |         |           | 20825                | 21100                   | 21375                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)             |            |         |           | 2507.5               | 2535                    | 2562.5                |                     |                     |  |
| 15                          | QPSK       | 1       | 0         | 22.31                | 22.57                   | 22.51                 | 24                  | 0                   |  |
| 15                          | QPSK       | 1       | 37        | 22.22                | 22.51                   | 22.47                 |                     |                     |  |
| 15                          | QPSK       | 1       | 74        | 22.16                | 22.45                   | 22.40                 |                     |                     |  |
| 15                          | QPSK       | 36      | 0         | 21.53                | 21.80                   | 21.55                 | 23                  | 1                   |  |
| 15                          | QPSK       | 36      | 20        | 21.42                | 21.73                   | 21.46                 |                     |                     |  |
| 15                          | QPSK       | 36      | 39        | 21.49                | 21.74                   | 21.43                 |                     |                     |  |
| 15                          | QPSK       | 75      | 0         | 21.57                | 21.68                   | 21.61                 | 23                  | 1                   |  |
| 15                          | 16QAM      | 1       | 0         | 21.92                | 22.14                   | 22.06                 |                     |                     |  |
| 15                          | 16QAM      | 1       | 37        | 21.85                | 22.03                   | 21.97                 |                     |                     |  |
| 15                          | 16QAM      | 1       | 74        | 21.82                | 22.14                   | 21.90                 | 22                  | 2                   |  |
| 15                          | 16QAM      | 36      | 0         | 20.73                | 20.83                   | 20.54                 |                     |                     |  |
| 15                          | 16QAM      | 36      | 20        | 20.63                | 20.75                   | 20.42                 |                     |                     |  |
| 15                          | 16QAM      | 36      | 39        | 20.66                | 20.77                   | 20.46                 | 22                  | 2                   |  |
| 15                          | 16QAM      | 75      | 0         | 20.75                | 20.88                   | 20.80                 |                     |                     |  |
| 15                          | 64QAM      | 1       | 0         | 20.43                | 20.60                   | 20.40                 |                     |                     |  |
| 15                          | 64QAM      | 1       | 37        | 20.37                | 20.54                   | 20.27                 | 21                  | 3                   |  |
| 15                          | 64QAM      | 1       | 74        | 20.43                | 20.53                   | 20.26                 |                     |                     |  |
| 15                          | 64QAM      | 36      | 0         | 19.60                | 19.84                   | 19.54                 |                     |                     |  |
| 15                          | 64QAM      | 36      | 20        | 19.50                | 19.75                   | 19.45                 | 19                  | 5                   |  |
| 15                          | 64QAM      | 36      | 39        | 19.40                | 19.68                   | 19.39                 |                     |                     |  |
| 15                          | 64QAM      | 75      | 0         | 19.65                | 19.79                   | 19.71                 |                     |                     |  |
| 15                          | 256QAM     | 1       | 0         | 17.50                | 17.73                   | 17.66                 | 19                  | 5                   |  |
| 15                          | 256QAM     | 1       | 37        | 17.35                | 17.62                   | 17.55                 |                     |                     |  |
| 15                          | 256QAM     | 1       | 74        | 17.30                | 17.59                   | 17.50                 |                     |                     |  |
| 15                          | 256QAM     | 36      | 0         | 17.47                | 17.74                   | 17.67                 | 19                  | 5                   |  |
| 15                          | 256QAM     | 36      | 20        | 17.29                | 17.57                   | 17.58                 |                     |                     |  |
| 15                          | 256QAM     | 36      | 39        | 17.27                | 17.55                   | 17.48                 |                     |                     |  |
| 15                          | 256QAM     | 75      | 0         | 17.29                | 17.57                   | 17.46                 | Channel             | Tune-up limit (dBm) |  |
| Frequency (MHz)             |            |         |           | 20800                | 21100                   | 21400                 |                     |                     |  |
| Frequency (MHz)             |            |         |           | 2505                 | 2535                    | 2565                  | Tune-up limit (dBm) | MPR (dB)            |  |
| 10                          | QPSK       | 1       | 0         | 22.39                | 22.59                   | 22.53                 |                     | 24                  |  |
| 10                          | QPSK       | 1       | 25        | 22.23                | 22.52                   | 22.47                 |                     |                     |  |
| 10                          | QPSK       | 1       | 49        | 22.16                | 22.45                   | 22.37                 | 23                  | 1                   |  |
| 10                          | QPSK       | 25      | 0         | 21.54                | 21.85                   | 21.55                 |                     |                     |  |
| 10                          | QPSK       | 25      | 12        | 21.46                | 21.71                   | 21.49                 |                     |                     |  |
| 10                          | QPSK       | 25      | 25        | 21.54                | 21.71                   | 21.40                 | 23                  | 1                   |  |
| 10                          | QPSK       | 50      | 0         | 21.57                | 21.73                   | 21.63                 |                     |                     |  |
| 10                          | 16QAM      | 1       | 0         | 21.94                | 22.22                   | 22.08                 |                     |                     |  |
| 10                          | 16QAM      | 1       | 25        | 21.80                | 21.99                   | 22.02                 | 23                  | 1                   |  |
| 10                          | 16QAM      | 1       | 49        | 21.85                | 22.15                   | 21.89                 |                     |                     |  |
| 10                          | 16QAM      | 25      | 0         | 20.74                | 20.85                   | 20.54                 |                     |                     |  |
| 10                          | 16QAM      | 25      | 12        | 20.63                | 20.74                   | 20.39                 | 22                  | 2                   |  |
| 10                          | 16QAM      | 25      | 25        | 20.66                | 20.71                   | 20.50                 |                     |                     |  |
| 10                          | 16QAM      | 50      | 0         | 20.70                | 20.80                   | 20.79                 |                     |                     |  |
| 10                          | 64QAM      | 1       | 0         | 20.46                | 20.65                   | 20.42                 | 22                  | 2                   |  |
| 10                          | 64QAM      | 1       | 25        | 20.38                | 20.63                   | 20.29                 |                     |                     |  |
| 10                          | 64QAM      | 1       | 49        | 20.35                | 20.45                   | 20.27                 |                     |                     |  |
| 10                          | 64QAM      | 25      | 0         | 19.61                | 19.79                   | 19.54                 | 21                  | 3                   |  |
| 10                          | 64QAM      | 25      | 12        | 19.53                | 19.75                   | 19.45                 |                     |                     |  |
| 10                          | 64QAM      | 25      | 25        | 19.40                | 19.72                   | 19.38                 |                     |                     |  |
| 10                          | 64QAM      | 50      | 0         | 19.59                | 19.80                   | 19.75                 | 19                  | 5                   |  |
| 10                          | 256QAM     | 1       | 0         | 17.37                | 17.63                   | 17.50                 |                     |                     |  |
| 10                          | 256QAM     | 1       | 25        | 17.21                | 17.53                   | 17.47                 |                     |                     |  |
| 10                          | 256QAM     | 1       | 49        | 17.14                | 17.42                   | 17.37                 | 19                  | 5                   |  |
| 10                          | 256QAM     | 25      | 0         | 17.42                | 17.57                   | 17.52                 |                     |                     |  |
| 10                          | 256QAM     | 25      | 12        | 17.27                | 17.51                   | 17.47                 |                     |                     |  |
| 10                          | 256QAM     | 25      | 25        | 17.13                | 17.44                   | 17.34                 | Channel             | Tune-up limit (dBm) |  |
| 10                          | 256QAM     | 50      | 0         | 17.43                | 17.57                   | 17.49                 |                     |                     |  |
| Channel                     |            |         |           | 20775                | 21100                   | 21425                 | Tune-up limit (dBm) | MPR (dB)            |  |
| Frequency (MHz)             |            |         |           | 2502.5               | 2535                    | 2567.5                |                     |                     |  |
| 5                           | QPSK       | 1       | 0         | 22.30                | 22.59                   | 22.53                 | 24                  | 0                   |  |
| 5                           | QPSK       | 1       | 12        | 22.17                | 22.49                   | 22.39                 |                     |                     |  |
| 5                           | QPSK       | 1       | 24        | 22.20                | 22.46                   | 22.38                 |                     |                     |  |
| 5                           | QPSK       | 12      | 0         | 21.54                | 21.83                   | 21.51                 | 23                  | 1                   |  |
| 5                           | QPSK       | 12      | 7         | 21.42                | 21.67                   | 21.48                 |                     |                     |  |
| 5                           | QPSK       | 12      | 13        | 21.53                | 21.71                   | 21.48                 |                     |                     |  |
| 5                           | QPSK       | 25      | 0         | 21.57                | 21.75                   | 21.67                 | 23                  | 1                   |  |
| 5                           | 16QAM      | 1       | 0         | 21.89                | 22.19                   | 22.10                 |                     |                     |  |
| 5                           | 16QAM      | 1       | 12        | 21.85                | 22.00                   | 22.01                 |                     |                     |  |
| 5                           | 16QAM      | 1       | 24        | 21.81                | 22.10                   | 21.92                 | 22                  | 2                   |  |
| 5                           | 16QAM      | 12      | 0         | 20.78                | 20.81                   | 20.58                 |                     |                     |  |
| 5                           | 16QAM      | 12      | 7         | 20.65                | 20.73                   | 20.46                 |                     |                     |  |
| 5                           | 16QAM      | 12      | 13        | 20.66                | 20.76                   | 20.42                 | 22                  | 2                   |  |
| 5                           | 16QAM      | 25      | 0         | 20.78                | 20.86                   | 20.76                 |                     |                     |  |
| 5                           | 64QAM      | 1       | 0         | 20.49                | 20.62                   | 20.34                 |                     |                     |  |
| 5                           | 64QAM      | 1       | 12        | 20.33                | 20.55                   | 20.28                 | 21                  | 3                   |  |
| 5                           | 64QAM      | 1       | 24        | 20.38                | 20.47                   | 20.28                 |                     |                     |  |
| 5                           | 64QAM      | 12      | 0         | 19.67                | 19.80                   | 19.58                 |                     |                     |  |
| 5                           | 64QAM      | 12      | 7         | 19.48                | 19.73                   | 19.46                 | 19                  | 5                   |  |
| 5                           | 64QAM      | 12      | 13        | 19.40                | 19.73                   | 19.42                 |                     |                     |  |
| 5                           | 64QAM      | 25      | 0         | 19.61                | 19.76                   | 19.73                 |                     |                     |  |
| 5                           | 256QAM     | 1       | 0         | 17.52                | 17.64                   | 17.55                 | 19                  | 5                   |  |
| 5                           | 256QAM     | 1       | 12        | 17.37                | 17.51                   | 17.34                 |                     |                     |  |
| 5                           | 256QAM     | 1       | 24        | 17.20                | 17.45                   | 17.43                 |                     |                     |  |
| 5                           | 256QAM     | 12      | 0         | 17.29                | 17.62                   | 17.56                 | 19                  | 5                   |  |
| 5                           | 256QAM     | 12      | 7         | 17.16                | 17.47                   | 17.39                 |                     |                     |  |
| 5                           | 256QAM     | 12      | 13        | 17.18                | 17.45                   | 17.37                 |                     |                     |  |
| 5                           | 256QAM     | 25      | 0         | 17.25                | 17.58                   | 17.51                 |                     |                     |  |

| Band 38 Ant5 DSI2 Standalone |            |         |           |                      |                         |                       |                     |          |  |
|------------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]                     | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                      |            |         |           | 37850                | 38000                   | 38150                 |                     |          |  |
| Frequency (MHz)              |            |         |           | 2580                 | 2595                    | 2610                  |                     |          |  |
| 20                           | QPSK       | 1       | 0         | 22.94                | 22.95                   | 22.93                 | 24                  | 0        |  |
| 20                           | QPSK       | 1       | 49        | 22.75                | 22.87                   | 22.80                 |                     |          |  |
| 20                           | QPSK       | 1       | 99        | 22.73                | 22.85                   | 22.78                 |                     |          |  |
| 20                           | QPSK       | 50      | 0         | 21.91                | 21.94                   | 21.89                 | 23                  | 1        |  |
| 20                           | QPSK       | 50      | 24        | 21.81                | 21.91                   | 21.84                 |                     |          |  |
| 20                           | QPSK       | 50      | 50        | 21.77                | 21.88                   | 21.78                 |                     |          |  |
| 20                           | QPSK       | 100     | 0         | 21.82                | 21.95                   | 21.81                 | 23                  | 1        |  |
| 20                           | 16QAM      | 1       | 0         | 21.65                | 21.71                   | 21.62                 |                     |          |  |
| 20                           | 16QAM      | 1       | 49        | 21.53                | 21.65                   | 21.59                 |                     |          |  |
| 20                           | 16QAM      | 1       | 99        | 21.55                | 21.68                   | 21.61                 | 22                  | 2        |  |
| 20                           | 16QAM      | 50      | 0         | 20.91                | 21.00                   | 20.89                 |                     |          |  |
| 20                           | 16QAM      | 50      | 24        | 20.91                | 20.98                   | 20.93                 |                     |          |  |
| 20                           | 16QAM      | 50      | 50        | 20.83                | 20.95                   | 20.82                 | 22                  | 2        |  |
| 20                           | 16QAM      | 100     | 0         | 20.79                | 20.87                   | 20.78                 |                     |          |  |
| 20                           | 64QAM      | 1       | 0         | 21.10                | 21.20                   | 21.10                 |                     |          |  |
| 20                           | 64QAM      | 1       | 49        | 20.98                | 21.05                   | 20.95                 | 22                  | 2        |  |
| 20                           | 64QAM      | 1       | 99        | 21.06                | 21.17                   | 21.02                 |                     |          |  |
| 20                           | 64QAM      | 50      | 0         | 19.78                | 19.89                   | 19.75                 |                     |          |  |
| 20                           | 64QAM      | 50      | 24        | 19.63                | 19.77                   | 19.62                 | 21                  | 3        |  |
| 20                           | 64QAM      | 50      | 50        | 19.77                | 19.86                   | 19.71                 |                     |          |  |
| 20                           | 64QAM      | 100     | 0         | 19.91                | 19.98                   | 19.84                 |                     |          |  |
| 20                           | 256QAM     | 1       | 0         | 17.95                | 17.90                   | 17.91                 | 19                  | 5        |  |
| 20                           | 256QAM     | 1       | 49        | 17.71                | 17.84                   | 17.77                 |                     |          |  |
| 20                           | 256QAM     | 1       | 99        | 17.78                | 17.85                   | 17.78                 |                     |          |  |
| 20                           | 256QAM     | 50      | 0         | 17.90                | 17.93                   | 17.90                 | 19                  | 5        |  |
| 20                           | 256QAM     | 50      | 24        | 17.76                | 17.90                   | 17.81                 |                     |          |  |
| 20                           | 256QAM     | 50      | 50        | 17.68                | 17.86                   | 17.77                 |                     |          |  |
| 20                           | 256QAM     | 100     | 0         | 17.65                | 17.88                   | 17.73                 |                     |          |  |
| Channel                      |            |         |           | 37825                | 38000                   | 38175                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 2577.5               | 2595                    | 2612.5                |                     |          |  |
| 15                           | QPSK       | 1       | 0         | 22.84                | 22.88                   | 22.83                 | 24                  | 0        |  |
| 15                           | QPSK       | 1       | 37        | 22.68                | 22.77                   | 22.69                 |                     |          |  |
| 15                           | QPSK       | 1       | 74        | 22.68                | 22.77                   | 22.68                 |                     |          |  |
| 15                           | QPSK       | 36      | 0         | 21.82                | 21.83                   | 21.83                 | 23                  | 1        |  |
| 15                           | QPSK       | 36      | 20        | 21.72                | 21.88                   | 21.73                 |                     |          |  |
| 15                           | QPSK       | 36      | 39        | 21.65                | 21.77                   | 21.71                 |                     |          |  |
| 15                           | QPSK       | 75      | 0         | 21.75                | 21.80                   | 21.71                 | 23                  | 1        |  |
| 15                           | 16QAM      | 1       | 0         | 21.54                | 21.59                   | 21.56                 |                     |          |  |
| 15                           | 16QAM      | 1       | 37        | 21.47                | 21.55                   | 21.51                 |                     |          |  |
| 15                           | 16QAM      | 1       | 74        | 21.42                | 21.56                   | 21.48                 | 22                  | 2        |  |
| 15                           | 16QAM      | 36      | 0         | 20.84                | 20.94                   | 20.82                 |                     |          |  |
| 15                           | 16QAM      | 36      | 20        | 20.79                | 20.83                   | 20.79                 |                     |          |  |
| 15                           | 16QAM      | 36      | 39        | 20.71                | 20.84                   | 20.76                 | 22                  | 2        |  |
| 15                           | 16QAM      | 75      | 0         | 20.64                | 20.81                   | 20.67                 |                     |          |  |
| 15                           | 64QAM      | 1       | 0         | 20.99                | 21.09                   | 21.00                 |                     |          |  |
| 15                           | 64QAM      | 1       | 37        | 20.85                | 20.95                   | 20.82                 | 22                  | 2        |  |
| 15                           | 64QAM      | 1       | 74        | 20.96                | 21.07                   | 20.93                 |                     |          |  |
| 15                           | 64QAM      | 36      | 0         | 19.70                | 19.80                   | 19.69                 |                     |          |  |
| 15                           | 64QAM      | 36      | 20        | 19.57                | 19.62                   | 19.54                 | 21                  | 3        |  |
| 15                           | 64QAM      | 36      | 39        | 19.70                | 19.80                   | 19.58                 |                     |          |  |
| 15                           | 64QAM      | 75      | 0         | 19.76                | 19.92                   | 19.70                 |                     |          |  |
| 15                           | 256QAM     | 1       | 0         | 17.87                | 17.78                   | 17.83                 | 19                  | 5        |  |
| 15                           | 256QAM     | 1       | 37        | 17.62                | 17.78                   | 17.67                 |                     |          |  |
| 15                           | 256QAM     | 1       | 74        | 17.71                | 17.80                   | 17.67                 |                     |          |  |
| 15                           | 256QAM     | 36      | 0         | 17.76                | 17.80                   | 17.76                 | 19                  | 5        |  |
| 15                           | 256QAM     | 36      | 20        | 17.67                | 17.84                   | 17.70                 |                     |          |  |
| 15                           | 256QAM     | 36      | 39        | 17.54                | 17.72                   | 17.72                 |                     |          |  |
| 15                           | 256QAM     | 75      | 0         | 17.51                | 17.82                   | 17.62                 |                     |          |  |
| Channel                      |            |         |           | 37800                | 38000                   | 38200                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 2575                 | 2595                    | 2615                  |                     |          |  |
| 10                           | QPSK       | 1       | 0         | 22.86                | 22.87                   | 22.82                 | 24                  | 0        |  |
| 10                           | QPSK       | 1       | 25        | 22.61                | 22.75                   | 22.68                 |                     |          |  |
| 10                           | QPSK       | 1       | 49        | 22.60                | 22.75                   | 22.64                 |                     |          |  |
| 10                           | QPSK       | 25      | 0         | 21.85                | 21.77                   | 21.78                 | 23                  | 1        |  |
| 10                           | QPSK       | 25      | 12        | 21.74                | 21.87                   | 21.73                 |                     |          |  |
| 10                           | QPSK       | 25      | 25        | 21.65                | 21.73                   | 21.70                 |                     |          |  |
| 10                           | QPSK       | 50      | 0         | 21.75                | 21.83                   | 21.73                 | 23                  | 1        |  |
| 10                           | 16QAM      | 1       | 0         | 21.53                | 21.61                   | 21.56                 |                     |          |  |
| 10                           | 16QAM      | 1       | 25        | 21.39                | 21.59                   | 21.52                 |                     |          |  |
| 10                           | 16QAM      | 1       | 49        | 21.47                | 21.56                   | 21.46                 | 22                  | 2        |  |
| 10                           | 16QAM      | 25      | 0         | 20.77                | 20.88                   | 20.83                 |                     |          |  |
| 10                           | 16QAM      | 25      | 12        | 20.85                | 20.89                   | 20.84                 |                     |          |  |
| 10                           | 16QAM      | 25      | 25        | 20.77                | 20.82                   | 20.75                 | 22                  | 2        |  |
| 10                           | 16QAM      | 50      | 0         | 20.69                | 20.75                   | 20.63                 |                     |          |  |
| 10                           | 64QAM      | 1       | 0         | 21.02                | 21.08                   | 21.05                 |                     |          |  |
| 10                           | 64QAM      | 1       | 25        | 20.91                | 20.94                   | 20.85                 | 22                  | 2        |  |
| 10                           | 64QAM      | 1       | 49        | 20.92                | 21.08                   | 20.93                 |                     |          |  |
| 10                           | 64QAM      | 25      | 0         | 19.69                | 19.75                   | 19.63                 |                     |          |  |
| 10                           | 64QAM      | 25      | 12        | 19.48                | 19.70                   | 19.54                 | 21                  | 3        |  |
| 10                           | 64QAM      | 25      | 25        | 19.63                | 19.78                   | 19.58                 |                     |          |  |
| 10                           | 64QAM      | 50      | 0         | 19.84                | 19.92                   | 19.78                 |                     |          |  |
| 10                           | 256QAM     | 1       | 0         | 17.90                | 17.81                   | 17.83                 | 19                  | 5        |  |
| 10                           | 256QAM     | 1       | 25        | 17.63                | 17.72                   | 17.70                 |                     |          |  |
| 10                           | 256QAM     | 1       | 49        | 17.73                | 17.76                   | 17.72                 |                     |          |  |
| 10                           | 256QAM     | 25      | 0         | 17.82                | 17.82                   | 17.79                 | 19                  | 5        |  |
| 10                           | 256QAM     | 25      | 12        | 17.70                | 17.83                   | 17.74                 |                     |          |  |
| 10                           | 256QAM     | 25      | 25        | 17.54                | 17.79                   | 17.70                 |                     |          |  |
| 10                           | 256QAM     | 50      | 0         | 17.51                | 17.83                   | 17.66                 |                     |          |  |
| Channel                      |            |         |           | 37775                | 38000                   | 38225                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 2572.5               | 2595                    | 2617.5                |                     |          |  |
| 5                            | QPSK       | 1       | 0         | 22.80                | 22.87                   | 22.81                 | 24                  | 0        |  |
| 5                            | QPSK       | 1       | 12        | 22.66                | 22.78                   | 22.69                 |                     |          |  |
| 5                            | QPSK       | 1       | 24        | 22.61                | 22.76                   | 22.65                 |                     |          |  |
| 5                            | QPSK       | 12      | 0         | 21.84                | 21.76                   | 21.76                 | 23                  | 1        |  |
| 5                            | QPSK       | 12      | 7         | 21.71                | 21.85                   | 21.70                 |                     |          |  |
| 5                            | QPSK       | 12      | 13        | 21.66                | 21.73                   | 21.65                 |                     |          |  |
| 5                            | QPSK       | 25      | 0         | 21.73                | 21.82                   | 21.71                 | 23                  | 1        |  |
| 5                            | 16QAM      | 1       | 0         | 21.55                | 21.56                   | 21.51                 |                     |          |  |
| 5                            | 16QAM      | 1       | 12        | 21.41                | 21.55                   | 21.46                 |                     |          |  |
| 5                            | 16QAM      | 1       | 24        | 21.46                | 21.62                   | 21.50                 | 22                  | 2        |  |
| 5                            | 16QAM      | 12      | 0         | 20.81                | 20.93                   | 20.77                 |                     |          |  |
| 5                            | 16QAM      | 12      | 7         | 20.79                | 20.92                   | 20.85                 |                     |          |  |
| 5                            | 16QAM      | 12      | 13        | 20.75                | 20.87                   | 20.74                 | 22                  | 2        |  |
| 5                            | 16QAM      | 25      | 0         | 20.70                | 20.77                   | 20.69                 |                     |          |  |
| 5                            | 64QAM      | 1       | 0         | 20.98                | 21.06                   | 21.04                 |                     |          |  |
| 5                            | 64QAM      | 1       | 12        | 20.92                | 20.93                   | 20.86                 | 22                  | 2        |  |
| 5                            | 64QAM      | 1       | 24        | 20.92                | 21.05                   | 20.89                 |                     |          |  |
| 5                            | 64QAM      | 12      | 0         | 19.68                | 19.75                   | 19.68                 |                     |          |  |
| 5                            | 64QAM      | 12      | 7         | 19.50                | 19.69                   | 19.52                 | 21                  | 3        |  |
| 5                            | 64QAM      | 12      | 13        | 19.69                | 19.76                   | 19.56                 |                     |          |  |
| 5                            | 64QAM      | 25      | 0         | 19.84                | 19.91                   | 19.69                 |                     |          |  |
| 5                            | 256QAM     | 1       | 0         | 17.89                | 17.79                   | 17.85                 | 19                  | 5        |  |
| 5                            | 256QAM     | 1       | 12        | 17.59                | 17.70                   | 17.70                 |                     |          |  |
| 5                            | 256QAM     | 1       | 24        | 17.67                | 17.79                   | 17.70                 |                     |          |  |
| 5                            | 256QAM     | 12      | 0         | 17.80                | 17.83                   | 17.77                 | 19                  | 5        |  |
| 5                            | 256QAM     | 12      | 7         | 17.64                | 17.82                   | 17.70                 |                     |          |  |
| 5                            | 256QAM     | 12      | 13        | 17.57                | 17.81                   | 17.70                 |                     |          |  |
| 5                            | 256QAM     | 25      | 0         | 17.53                | 17.78                   | 17.64                 |                     |          |  |

## Reduced Power Mode for DS12 Simultaneous

| GSM850 Ant0 DS12 Simultaneous   |                         |                           |       |        |                     |                           |        |        |                     |         |       |       |                     |
|---------------------------------|-------------------------|---------------------------|-------|--------|---------------------|---------------------------|--------|--------|---------------------|---------|-------|-------|---------------------|
| GSM850                          |                         | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |        |        | Tune-up Limit (dBm) |         |       |       |                     |
| TX Channel                      |                         | 128                       | 189   | 251    |                     | 128                       | 189    | 251    |                     |         |       |       |                     |
| Frequency (MHz)                 |                         | 824.2                     | 836.4 | 848.8  |                     | 824.2                     | 836.4  | 848.8  |                     |         |       |       |                     |
| GSM 1 Tx slot                   |                         | 32.30                     | 32.53 | 32.44  | 33.50               | 23.30                     | 23.53  | 23.44  | 24.50               |         |       |       |                     |
| GPRS 1 Tx slot                  |                         | 32.31                     | 32.55 | 32.46  | 33.50               | 23.31                     | 23.55  | 23.46  | 24.50               |         |       |       |                     |
| GPRS 2 Tx slots                 |                         | 30.72                     | 30.88 | 30.75  | 32.00               | 24.72                     | 24.88  | 24.75  | 26.00               |         |       |       |                     |
| GPRS 3 Tx slots                 |                         | 28.67                     | 28.78 | 28.74  | 30.00               | 24.41                     | 24.52  | 24.48  | 25.74               |         |       |       |                     |
| GPRS 4 Tx slots                 |                         | 26.61                     | 26.66 | 26.71  | 27.50               | 23.61                     | 23.66  | 23.71  | 24.50               |         |       |       |                     |
| EDGE 1 Tx slot                  |                         | 26.14                     | 26.24 | 26.17  | 27.00               | 17.14                     | 17.24  | 17.17  | 18.00               |         |       |       |                     |
| EDGE 2 Tx slots                 |                         | 24.94                     | 25.10 | 25.00  | 26.00               | 18.94                     | 19.10  | 19.00  | 20.00               |         |       |       |                     |
| EDGE 3 Tx slots                 |                         | 22.92                     | 22.76 | 22.91  | 24.00               | 18.66                     | 18.50  | 18.65  | 19.74               |         |       |       |                     |
| EDGE 4 Tx slots                 |                         | 20.81                     | 20.76 | 20.47  | 22.00               | 17.81                     | 17.76  | 17.47  | 19.00               |         |       |       |                     |
| GSM1900 Ant0 DS12 Simultaneous  |                         |                           |       |        |                     |                           |        |        |                     |         |       |       |                     |
| GSM1900                         |                         | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |        |        | Tune-up Limit (dBm) |         |       |       |                     |
| TX Channel                      |                         | 512                       | 661   | 810    |                     | 512                       | 661    | 810    |                     |         |       |       |                     |
| Frequency (MHz)                 |                         | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880   | 1909.8 |                     |         |       |       |                     |
| GSM 1 Tx slot                   |                         | 29.95                     | 30.02 | 29.91  | 30.50               | 20.95                     | 21.02  | 20.91  | 21.50               |         |       |       |                     |
| GPRS 1 Tx slot                  |                         | 30.04                     | 30.06 | 29.68  | 30.50               | 21.04                     | 21.06  | 20.68  | 21.50               |         |       |       |                     |
| GPRS 2 Tx slots                 |                         | 28.44                     | 28.52 | 28.17  | 29.50               | 22.44                     | 22.52  | 22.17  | 23.50               |         |       |       |                     |
| GPRS 3 Tx slots                 |                         | 26.42                     | 26.55 | 26.22  | 27.50               | 22.16                     | 22.29  | 21.96  | 23.24               |         |       |       |                     |
| GPRS 4 Tx slots                 |                         | 24.23                     | 24.28 | 23.95  | 25.00               | 21.23                     | 21.28  | 20.95  | 22.00               |         |       |       |                     |
| EDGE 1 Tx slot                  |                         | 25.67                     | 25.85 | 25.47  | 27.00               | 16.67                     | 16.85  | 16.47  | 18.00               |         |       |       |                     |
| EDGE 2 Tx slots                 |                         | 24.46                     | 24.52 | 24.17  | 25.50               | 18.46                     | 18.52  | 18.17  | 19.50               |         |       |       |                     |
| EDGE 3 Tx slots                 |                         | 22.44                     | 22.44 | 22.00  | 23.50               | 18.18                     | 18.18  | 17.74  | 19.24               |         |       |       |                     |
| EDGE 4 Tx slots                 |                         | 20.22                     | 20.31 | 20.01  | 21.50               | 17.22                     | 17.31  | 17.01  | 18.50               |         |       |       |                     |
| WCDMA II Ant0 DS12 Simultaneous |                         |                           |       |        |                     |                           |        |        |                     |         |       |       |                     |
| 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   |                     | 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            | 22.80                     | 22.82 | 22.61  | 24.00               | 22.91                     | 23.02  | 22.93  | 24.00               | 22.86   | 23.12 | 23.10 | 24.00               |
| 3GPP Rel 99                     | RM/C 12.2Kbps           | 22.95                     | 22.99 | 22.77  | 24.00               | 23.02                     | 23.17  | 23.06  | 24.00               | 23.00   | 23.24 | 23.23 | 24.00               |
| 3GPP Rel 6                      | HSDPA Subtest-1         | 21.86                     | 21.97 | 21.85  | 23.00               | 21.69                     | 21.82  | 21.70  | 23.00               | 21.81   | 22.00 | 21.81 | 23.00               |
| 3GPP Rel 6                      | HSDPA Subtest-2         | 21.87                     | 22.02 | 21.96  | 23.00               | 21.75                     | 21.89  | 21.81  | 23.00               | 21.84   | 22.06 | 21.91 | 23.00               |
| 3GPP Rel 6                      | HSDPA Subtest-3         | 21.48                     | 21.45 | 21.55  | 22.50               | 21.34                     | 21.25  | 21.35  | 22.50               | 21.50   | 21.40 | 21.54 | 22.50               |
| 3GPP Rel 6                      | HSDPA Subtest-4         | 21.41                     | 21.51 | 21.51  | 22.50               | 21.30                     | 21.38  | 21.42  | 22.50               | 21.47   | 21.51 | 21.62 | 22.50               |
| 3GPP Rel 8                      | DC-HSDPA Subtest-1      | 22.01                     | 22.00 | 21.76  | 23.00               | 21.83                     | 21.89  | 21.62  | 23.00               | 21.95   | 22.00 | 21.73 | 23.00               |
| 3GPP Rel 8                      | DC-HSDPA Subtest-2      | 21.81                     | 22.06 | 21.86  | 23.00               | 21.72                     | 21.89  | 21.76  | 23.00               | 21.85   | 22.10 | 21.88 | 23.00               |
| 3GPP Rel 8                      | DC-HSDPA Subtest-3      | 21.52                     | 21.54 | 21.46  | 22.50               | 21.37                     | 21.42  | 21.37  | 22.50               | 21.47   | 21.62 | 21.52 | 22.50               |
| 3GPP Rel 8                      | DC-HSDPA Subtest-4      | 21.37                     | 21.58 | 21.53  | 22.50               | 21.18                     | 21.47  | 21.40  | 22.50               | 21.37   | 21.57 | 21.51 | 22.50               |
| 3GPP Rel 6                      | HSUPA Subtest-1         | 21.81                     | 21.98 | 21.88  | 23.00               | 21.67                     | 21.81  | 21.76  | 23.00               | 21.82   | 21.99 | 21.90 | 23.00               |
| 3GPP Rel 6                      | HSUPA Subtest-2         | 20.01                     | 20.07 | 19.97  | 21.00               | 19.92                     | 19.88  | 19.88  | 21.00               | 20.04   | 20.06 | 20.08 | 21.00               |
| 3GPP Rel 6                      | HSUPA Subtest-3         | 20.90                     | 20.99 | 20.87  | 22.00               | 20.78                     | 20.85  | 20.69  | 22.00               | 20.91   | 21.01 | 20.84 | 22.00               |
| 3GPP Rel 6                      | HSUPA Subtest-4         | 20.01                     | 19.94 | 19.82  | 21.00               | 19.80                     | 19.85  | 19.70  | 21.00               | 19.92   | 19.95 | 19.83 | 21.00               |
| 3GPP Rel 6                      | HSUPA Subtest-5         | 21.93                     | 21.91 | 22.03  | 23.00               | 21.79                     | 21.78  | 21.92  | 23.00               | 21.95   | 21.95 | 22.03 | 23.00               |
| 3GPP Rel 7                      | HSPA+ (16QAM) Subtest-1 | 19.43                     | 19.52 | 19.44  | 20.50               | 19.29                     | 19.36  | 19.29  | 20.50               | 19.48   | 19.55 | 19.40 | 20.50               |



| Band 2 Ant0 DS12 Simultaneous |            |         |           |                           |                            |                           |                     |             |  |    |   |  |
|-------------------------------|------------|---------|-----------|---------------------------|----------------------------|---------------------------|---------------------|-------------|--|----|---|--|
| BW (MHz)                      | Modulation | RB Size | RB Offset | Power<br>Mod<br>Ch./Freq. | Power<br>High<br>Ch./Freq. | Power<br>Low<br>Ch./Freq. | Turn-up<br>Time (s) | MPE<br>(dB) |  |    |   |  |
| Channel                       |            |         |           |                           |                            |                           |                     |             |  |    |   |  |
| Frequency (MHz)               |            |         |           |                           |                            |                           |                     |             |  |    |   |  |
| 20                            | QPSK       | 1       | 0         | 22.23                     | 22.27                      | 22.24                     | 24                  | 0           |  |    |   |  |
| 20                            | QPSK       | 1       | 49        | 22.18                     | 22.19                      | 22.17                     |                     |             |  |    |   |  |
| 20                            | QPSK       | 1       | 99        | 22.10                     | 22.22                      | 22.18                     |                     |             |  |    |   |  |
| 20                            | QPSK       | 50      | 0         | 21.35                     | 21.36                      | 21.33                     |                     |             |  |    |   |  |
| 20                            | QPSK       | 50      | 24        | 21.23                     | 21.28                      | 21.19                     | 23                  | 1           |  |    |   |  |
| 20                            | QPSK       | 1       | 0         | 21.19                     | 21.24                      | 21.48                     |                     |             |  |    |   |  |
| 20                            | QPSK       | 100     | 0         | 21.45                     | 21.54                      | 21.42                     |                     |             |  |    |   |  |
| 20                            | QPSK       | 150     | 0         | 21.39                     | 21.59                      | 21.41                     |                     |             |  |    |   |  |
| 20                            | HQAM       | 1       | 49        | 21.31                     | 21.48                      | 21.32                     | 23                  | 1           |  |    |   |  |
| 20                            | HQAM       | 1       | 99        | 21.24                     | 21.49                      | 21.34                     |                     |             |  |    |   |  |
| 20                            | HQAM       | 50      | 0         | 20.39                     | 20.45                      | 20.39                     |                     |             |  |    |   |  |
| 20                            | HQAM       | 50      | 24        | 20.33                     | 20.35                      | 20.28                     |                     |             |  |    |   |  |
| 20                            | HQAM       | 50      | 50        | 20.32                     | 20.41                      | 20.30                     | 22                  | 2           |  |    |   |  |
| 20                            | HQAM       | 100     | 0         | 20.29                     | 20.38                      | 20.21                     |                     |             |  |    |   |  |
| 20                            | HQAM       | 1       | 0         | 20.58                     | 20.65                      | 20.54                     |                     |             |  |    |   |  |
| 20                            | HQAM       | 1       | 49        | 20.46                     | 20.59                      | 20.46                     |                     |             |  |    |   |  |
| 20                            | HQAM       | 50      | 0         | 20.53                     | 20.53                      | 20.48                     | 21                  | 3           |  |    |   |  |
| 20                            | HQAM       | 50      | 0         | 19.35                     | 19.44                      | 19.39                     |                     |             |  |    |   |  |
| 20                            | HQAM       | 1       | 99        | 19.22                     | 19.31                      | 19.26                     |                     |             |  |    |   |  |
| 20                            | HQAM       | 50      | 25        | 19.27                     | 19.37                      | 19.24                     |                     |             |  |    |   |  |
| 20                            | HQAM       | 100     | 0         | 19.41                     | 19.46                      | 19.43                     | 19                  | 5           |  |    |   |  |
| 20                            | HQAM       | 1       | 49        | 17.22                     | 17.28                      | 17.21                     |                     |             |  |    |   |  |
| 20                            | SSBQAM     | 1       | 99        | 17.16                     | 17.35                      | 17.25                     |                     |             |  |    |   |  |
| 20                            | SSBQAM     | 1       | 24        | 17.32                     | 17.35                      | 17.28                     |                     |             |  |    |   |  |
| 20                            | SSBQAM     | 24      | 0         | 17.15                     | 17.20                      | 17.21                     |                     |             |  |    |   |  |
| 20                            | SSBQAM     | 50      | 50        | 17.11                     | 17.19                      | 17.21                     |                     |             |  |    |   |  |
| 20                            | SSBQAM     | 100     | 0         | 17.17                     | 17.23                      | 17.21                     |                     |             |  |    |   |  |
| Channel                       |            |         |           |                           |                            |                           |                     |             |  |    |   |  |
| Frequency (MHz)               |            |         |           |                           |                            |                           |                     |             |  |    |   |  |
| 15                            | QPSK       | 1       | 0         | 18.07                     | 18.00                      | 18.03                     | 24                  | 0           |  |    |   |  |
| 15                            | QPSK       | 1       | 49        | 22.12                     | 22.21                      | 22.18                     |                     |             |  |    |   |  |
| 15                            | QPSK       | 1       | 99        | 22.02                     | 22.07                      | 22.04                     |                     |             |  |    |   |  |
| 15                            | QPSK       | 1       | 74        | 22.01                     | 22.13                      | 22.08                     |                     |             |  |    |   |  |
| 15                            | QPSK       | 36      | 0         | 21.28                     | 21.29                      | 21.27                     | 23                  | 1           |  |    |   |  |
| 15                            | QPSK       | 25      | 0         | 21.07                     | 21.14                      | 21.04                     |                     |             |  |    |   |  |
| 15                            | QPSK       | 36      | 36        | 21.07                     | 21.16                      | 21.10                     |                     |             |  |    |   |  |
| 15                            | QPSK       | 75      | 0         | 21.56                     | 21.48                      | 21.35                     |                     |             |  |    |   |  |
| 15                            | HQAM       | 1       | 0         | 21.34                     | 21.47                      | 21.35                     | 23                  | 1           |  |    |   |  |
| 15                            | HQAM       | 1       | 37        | 21.16                     | 21.38                      | 21.18                     |                     |             |  |    |   |  |
| 15                            | HQAM       | 1       | 24        | 21.14                     | 21.46                      | 21.24                     |                     |             |  |    |   |  |
| 15                            | HQAM       | 36      | 0         | 20.33                     | 20.30                      | 20.19                     |                     |             |  |    |   |  |
| 15                            | HQAM       | 36      | 20        | 20.24                     | 20.21                      | 20.14                     | 22                  | 2           |  |    |   |  |
| 15                            | HQAM       | 36      | 20        | 20.27                     | 20.25                      | 20.19                     |                     |             |  |    |   |  |
| 15                            | HQAM       | 75      | 0         | 20.22                     | 20.25                      | 20.16                     |                     |             |  |    |   |  |
| 15                            | HQAM       | 1       | 0         | 20.51                     | 20.59                      | 20.40                     |                     |             |  |    |   |  |
| 15                            | HQAM       | 37      | 0         | 20.37                     | 20.36                      | 20.28                     | 22                  | 2           |  |    |   |  |
| 15                            | HQAM       | 1       | 49        | 19.31                     | 19.37                      | 19.32                     |                     |             |  |    |   |  |
| 15                            | HQAM       | 1       | 74        | 20.45                     | 20.35                      | 20.28                     |                     |             |  |    |   |  |
| 15                            | HQAM       | 36      | 0         | 19.25                     | 19.34                      | 19.29                     |                     |             |  |    |   |  |
| 15                            | HQAM       | 36      | 20        | 19.12                     | 19.15                      | 19.10                     | 21                  | 3           |  |    |   |  |
| 15                            | HQAM       | 36      | 36        | 19.22                     | 19.25                      | 19.15                     |                     |             |  |    |   |  |
| 15                            | HQAM       | 75      | 0         | 19.57                     | 19.42                      | 19.27                     |                     |             |  |    |   |  |
| 15                            | HQAM       | 1       | 0         | 17.38                     | 17.38                      | 17.37                     |                     |             |  |    |   |  |
| 15                            | SSBQAM     | 1       | 37        | 17.16                     | 17.17                      | 17.22                     | 19                  | 5           |  |    |   |  |
| 15                            | SSBQAM     | 1       | 74        | 17.08                     | 17.30                      | 17.14                     |                     |             |  |    |   |  |
| 15                            | SSBQAM     | 36      | 0         | 17.22                     | 17.23                      | 17.28                     |                     |             |  |    |   |  |
| 15                            | SSBQAM     | 36      | 20        | 17.02                     | 17.12                      | 17.14                     |                     |             |  |    |   |  |
| 15                            | SSBQAM     | 36      | 39        | 17.03                     | 17.03                      | 17.16                     | 19                  | 5           |  |    |   |  |
| 15                            | SSBQAM     | 75      | 0         | 17.11                     | 17.17                      | 17.15                     |                     |             |  |    |   |  |
| 15                            | SSBQAM     | 15      | 0         | 17.11                     | 17.17                      | 17.20                     |                     |             |  |    |   |  |
| 15                            | SSBQAM     | 15      | 0         | 17.11                     | 17.17                      | 17.20                     |                     |             |  |    |   |  |
| Channel                       |            |         |           |                           |                            |                           |                     |             |  |    |   |  |
| Frequency (MHz)               |            |         |           |                           |                            |                           |                     |             |  |    |   |  |
| 10                            | QPSK       | 1       | 0         | 22.12                     | 22.10                      | 22.13                     | 24                  | 0           |  |    |   |  |
| 10                            | QPSK       | 1       | 25        | 22.01                     | 22.03                      | 22.08                     |                     |             |  |    |   |  |
| 10                            | QPSK       | 1       | 49        | 22.03                     | 22.10                      | 22.08                     |                     |             |  |    |   |  |
| 10                            | QPSK       | 1       | 20        | 21.37                     | 21.43                      | 21.39                     |                     |             |  |    |   |  |
| 10                            | QPSK       | 25      | 12        | 21.17                     | 21.16                      | 21.08                     | 23                  | 1           |  |    |   |  |
| 10                            | QPSK       | 25      | 25        | 21.05                     | 21.16                      | 21.19                     |                     |             |  |    |   |  |
| 10                            | QPSK       | 10      | 0         | 21.46                     | 21.48                      | 21.45                     |                     |             |  |    |   |  |
| 10                            | HQAM       | 1       | 0         | 21.27                     | 21.54                      | 21.28                     |                     |             |  |    |   |  |
| 10                            | HQAM       | 1       | 25        | 21.16                     | 21.40                      | 21.18                     | 23                  | 1           |  |    |   |  |
| 10                            | HQAM       | 1       | 49        | 21.14                     | 21.38                      | 21.16                     |                     |             |  |    |   |  |
| 10                            | HQAM       | 25      | 0         | 20.24                     | 20.37                      | 20.19                     |                     |             |  |    |   |  |
| 10                            | HQAM       | 25      | 12        | 20.24                     | 20.22                      | 20.14                     |                     |             |  |    |   |  |
| 10                            | HQAM       | 36      | 0         | 20.17                     | 20.22                      | 20.18                     | 22                  | 2           |  |    |   |  |
| 10                            | HQAM       | 50      | 0         | 20.24                     | 20.30                      | 20.13                     |                     |             |  |    |   |  |
| 10                            | HQAM       | 1       | 0         | 20.48                     | 20.60                      | 20.42                     |                     |             |  |    |   |  |
| 10                            | HQAM       | 1       | 25        | 20.33                     | 20.42                      | 20.40                     |                     |             |  |    |   |  |
| 10                            | HQAM       | 1       | 49        | 20.39                     | 20.44                      | 20.40                     | 21                  | 3           |  |    |   |  |
| 10                            | HQAM       | 25      | 0         | 19.21                     | 19.34                      | 19.16                     |                     |             |  |    |   |  |
| 10                            | HQAM       | 12      | 0         | 19.11                     | 19.16                      | 19.21                     |                     |             |  |    |   |  |
| 10                            | HQAM       | 25      | 25        | 19.21                     | 19.24                      | 19.16                     |                     |             |  |    |   |  |
| 10                            | HQAM       | 50      | 0         | 19.32                     | 19.41                      | 19.30                     | 19                  | 5           |  |    |   |  |
| 10                            | HQAM       | 1       | 0         | 17.36                     | 17.38                      | 17.35                     |                     |             |  |    |   |  |
| 10                            | SSBQAM     | 1       | 25        | 17.14                     | 17.16                      | 17.18                     |                     |             |  |    |   |  |
| 10                            | SSBQAM     | 1       | 49        | 17.11                     | 17.21                      | 17.13                     |                     |             |  |    |   |  |
| 10                            | SSBQAM     | 12      | 0         | 17.22                     | 17.26                      | 17.22                     | 19                  | 5           |  |    |   |  |
| 10                            | SSBQAM     | 25      | 12        | 17.07                     | 17.08                      | 17.16                     |                     |             |  |    |   |  |
| 10                            | SSBQAM     | 25      | 25        | 17.09                     | 17.08                      | 17.06                     |                     |             |  |    |   |  |
| 10                            | SSBQAM     | 50      | 0         | 17.11                     | 17.17                      | 17.20                     |                     |             |  |    |   |  |
| Channel                       |            |         |           |                           |                            |                           |                     |             |  |    |   |  |
| Frequency (MHz)               |            |         |           |                           |                            |                           |                     |             |  |    |   |  |
| 5                             | QPSK       | 1       | 0         | 22.12                     | 22.10                      | 22.13                     | 24                  | 0           |  |    |   |  |
| 5                             | QPSK       | 1       | 12        | 22.04                     | 22.02                      | 22.03                     |                     |             |  |    |   |  |
| 5                             | QPSK       | 1       | 24        | 22.07                     | 22.07                      | 22.02                     |                     |             |  |    |   |  |
| 5                             | QPSK       | 12      | 0         | 21.33                     | 21.28                      | 21.25                     |                     |             |  |    |   |  |
| 5                             | QPSK       | 12      | 7         | 21.16                     | 21.14                      | 21.04                     | 23                  | 1           |  |    |   |  |
| 5                             | QPSK       | 12      | 13        | 21.12                     | 21.13                      | 21.18                     |                     |             |  |    |   |  |
| 5                             | QPSK       | 25      | 0         | 21.33                     | 21.38                      | 21.33                     |                     |             |  |    |   |  |
| 5                             | HQAM       | 1       | 0         | 21.34                     | 21.48                      | 21.33                     |                     |             |  |    |   |  |
| 5                             | HQAM       | 1       | 12        | 21.21                     | 21.36                      | 21.18                     | 23                  | 1           |  |    |   |  |
| 5                             | HQAM       | 1       | 24        | 21.08                     | 21.37                      | 21.05                     |                     |             |  |    |   |  |
| 5                             | HQAM       | 12      | 0         | 20.32                     | 20.31                      | 20.28                     |                     |             |  |    |   |  |
| 5                             | HQAM       | 12      | 7         | 20.25                     | 20.25                      | 20.16                     |                     |             |  |    |   |  |
| 5                             | HQAM       | 12      | 13        | 20.21                     | 20.35                      | 20.24                     | 22                  | 2           |  |    |   |  |
| 5                             | HQAM       | 25      | 0         | 20.13                     | 20.27                      | 20.15                     |                     |             |  |    |   |  |
| 5                             | HQAM       | 1       | 0         | 20.47                     | 20.58                      | 20.47                     |                     |             |  |    |   |  |
| 5                             | HQAM       | 1       | 12        | 20.41                     | 20.38                      | 20.30                     |                     |             |  |    |   |  |
| 5                             | HQAM       | 1       | 24        | 20.43                     | 20.39                      | 20.43                     | 21                  | 3           |  |    |   |  |
| 5                             | HQAM       | 12      | 0         | 19.26                     | 19.30                      | 19.24                     |                     |             |  |    |   |  |
| 5                             | HQAM       | 12      | 7         | 19.09                     | 19.15                      | 19.14                     |                     |             |  |    |   |  |
| 5                             | HQAM       | 12      | 13        | 19.17                     | 19.23                      | 19.17                     |                     |             |  |    |   |  |
| 5                             | HQAM       | 25      | 0         | 19.26                     | 19.48                      | 19.34                     | 19                  | 5           |  |    |   |  |
| 5                             | SSBQAM     | 1       | 0         | 17.31                     | 17.39                      | 17.34                     |                     |             |  |    |   |  |
| 5                             | SSBQAM     | 1       | 12        | 17.09                     | 17.16                      | 17.25                     |                     |             |  |    |   |  |
| 5                             | SSBQAM     | 1       | 24        | 17.11                     | 17.23                      | 17.16                     |                     |             |  |    |   |  |
| 5                             | SSBQAM     | 12      | 0         | 17.25                     | 17.18                      | 17.17                     | 19                  | 5           |  |    |   |  |
| 5                             | SSBQAM     | 12      | 7         | 17.07                     | 17.05                      | 17.09                     |                     |             |  |    |   |  |
| 5                             | SSBQAM     | 12      | 13        | 17.01                     | 17.09                      | 17.15                     |                     |             |  |    |   |  |
| 5                             | SSBQAM     | 25      | 0         | 17.02                     | 17.18                      | 17.05                     |                     |             |  |    |   |  |
| Channel                       |            |         |           |                           |                            |                           |                     |             |  |    |   |  |
| Frequency (MHz)               |            |         |           |                           |                            |                           |                     |             |  |    |   |  |
| 3                             | QPSK       | 1       | 0         | 22.12                     | 22.17                      | 22.15                     | 24                  | 0           |  |    |   |  |
| 3                             | QPSK       | 1       | 8         | 22.05                     | 22.12                      | 22.06                     |                     |             |  |    |   |  |
| 3                             | QPSK       | 1       | 14        | 22.01                     | 22.09                      | 22.02                     |                     |             |  |    |   |  |
| 3                             | QPSK       | 1       | 0         | 21.05                     | 21.20                      | 21.07                     |                     |             |  |    |   |  |
| 3                             | QPSK       | 8       | 4         | 21.15                     | 21.12                      | 21.08                     | 23                  | 1           |  |    |   |  |
| 3                             | QPSK       | 8       | 7         | 21.13                     | 21.12                      | 21.18                     |                     |             |  |    |   |  |
| 3                             | QPSK       | 15      | 0         | 21.38                     | 21.47                      | 21.37                     | 23                  | 1           |  |    |   |  |
| 3                             | HQAM       | 1       | 0         | 21.34                     | 21.48                      | 21.33                     |                     |             |  |    |   |  |
| 3                             | HQAM       | 1       | 8         | 21.27                     | 21.33                      | 21.21                     |                     |             |  |    |   |  |
| 3                             | HQAM       | 1       | 14        | 21.13                     | 21.44                      | 21.24                     |                     |             |  |    |   |  |
| 3                             | HQAM       | 8       | 4         | 20.20                     | 20.31                      | 20.23                     | 23                  | 1           |  |    |   |  |
| 3                             | HQAM       | 8       | 7         | 20.20                     | 20.27                      | 20.23                     |                     |             |  |    |   |  |
| 3                             | HQAM       | 15      | 0         | 20.21                     | 20.35                      | 20.21                     |                     |             |  |    |   |  |
| 3                             | HQAM       | 1       | 0         | 20.47                     | 20.54                      | 20.47                     |                     |             |  |    |   |  |
| 3                             | HQAM       | 1       | 8         | 20.36                     | 20.43                      | 20.36                     | 22                  | 2           |  |    |   |  |
| 3                             | HQAM       | 1       | 14        | 20.30                     | 20.42                      | 20.37                     |                     |             |  |    |   |  |
| 3                             | HQAM       | 8       | 0         | 19.27                     | 19.32                      | 19.32                     |                     |             |  |    |   |  |
| 3                             | HQAM       | 8       | 4         | 19.13                     | 19.19                      | 19.22                     |                     |             |  |    |   |  |
| 3                             | SSBQAM     | 1       | 0         | 17.31                     | 17.32                      | 17.33                     | 21                  | 3           |  |    |   |  |
| 3                             | SSBQAM     | 1       | 8         | 17.14                     | 17.14                      | 17.21                     |                     |             |  |    |   |  |
| 3                             | SSBQAM     | 1       | 14        | 17.04                     | 17.29                      | 17.17                     |                     |             |  |    |   |  |
| 3                             | SSBQAM     | 15      | 0         | 17.17                     | 17.17                      | 17.25                     |                     |             |  |    |   |  |
| 3                             | SSBQAM     | 8       | 4         | 17.09                     | 17.05                      | 17.05                     | 19                  | 5           |  |    |   |  |
| 3                             | SSBQAM     | 8       | 7         | 17.02                     | 17.12                      | 17.08                     |                     |             |  |    |   |  |
| 3                             | SSBQAM     | 15      | 0         | 17.04                     | 17.04                      | 17.08                     |                     |             |  |    |   |  |
| Channel                       |            |         |           |                           |                            |                           |                     |             |  |    |   |  |
| Frequency (MHz)               |            |         |           |                           |                            |                           |                     |             |  |    |   |  |
| 1.4                           | QPSK       | 1       | 0         | 22.11                     | 22.23                      | 22.18                     |                     |             |  | 24 | 0 |  |
| 1.4                           | QPSK       | 1       | 8         | 22.01                     | 22.12                      | 22.05                     |                     |             |  |    |   |  |
| 1.4                           | QPSK       | 1       | 14        | 22.09                     | 22.11                      | 22.04                     |                     |             |  |    |   |  |
| 1.4                           | QPSK       | 3       | 0         | 21.06                     | 21.18                      | 21.10                     |                     |             |  |    |   |  |
| 1.4                           | QPSK       | 3       | 8         | 22.06                     | 22.06                      | 22.07                     | 23                  | 1           |  |    |   |  |
| 1.4                           | QPSK       | 3       | 7         | 22.03                     | 22.05                      | 22.03                     |                     |             |  |    |   |  |
| 1.4                           | QPSK       | 15      | 0         | 21.39                     | 21.47                      | 21.37                     | 23                  | 1           |  |    |   |  |
| 1.4                           | HQAM       | 1       | 0         | 21.28                     | 21.48                      | 21.30                     |                     |             |  |    |   |  |
| 1.4                           | HQAM       | 1       | 3         | 21.18                     | 21.47                      | 21.18                     |                     |             |  |    |   |  |
| 1.4                           | HQAM       | 3       | 0         | 20.21                     | 20.39                      | 20.24                     |                     |             |  |    |   |  |
| 1.4                           | HQAM       | 3       | 1         | 21.08                     | 21.37                      | 21.08                     | 23                  | 1           |  |    |   |  |
| 1.4                           | HQAM       | 3       | 8         | 20.21                     | 20.35                      | 20.21                     |                     |             |  |    |   |  |
| 1.4                           | HQAM       | 6       | 0         | 20.21                     | 20.29                      | 20.19                     |                     |             |  |    |   |  |
| 1.4                           | HQAM       | 1       | 0         | 20.44                     | 20.52                      | 20.41                     |                     |             |  |    |   |  |
| 1.4                           | HQAM       | 3       | 0         | 20.42                     | 20.48                      | 20.37                     | 22                  | 2           |  |    |   |  |
| 1.4                           | HQAM       | 1       | 6         | 20.38                     | 20.43                      | 20.33                     |                     |             |  |    |   |  |
| 1.4                           | HQAM       | 3       | 6         | 20.44                     | 20.42                      | 20.32                     |                     |             |  |    |   |  |
| 1.4                           | HQAM       | 1       | 14        | 20.34                     | 20.42                      | 20.27                     |                     |             |  |    |   |  |
| 1.4                           | HQAM       | 3       | 3         | 20.39                     | 20.33                      | 20.31                     | 21                  | 3           |  |    |   |  |
| 1.4                           | HQAM       | 6       | 0         | 19.30                     | 19.44                      | 19.34                     |                     |             |  |    |   |  |
| 1.4                           | HQAM       | 1       | 0         | 17.28                     | 17.24                      | 17.29                     |                     |             |  |    |   |  |
| 1.4                           | SSBQAM     | 1       | 14        | 17.07                     | 17.17                      | 17.21                     |                     |             |  |    |   |  |
| 1.4                           | SSBQAM     | 1       | 6         | 17.06                     | 17.24                      | 17.19                     | 19                  | 5           |  |    |   |  |
| 1.4                           | SSBQAM     | 3       | 1         | 17.28                     | 17.28                      | 17.29                     |                     |             |  |    |   |  |
| 1.4                           | SSBQAM     | 3       | 14        | 17.04                     | 17.07                      | 17.09                     |                     |             |  |    |   |  |
| 1.4                           | SSBQAM     | 6       | 0         | 17.12                     | 17.16                      | 17.22                     |                     |             |  |    |   |  |



| Band 12 Ant0 DS12 Simultaneous |            |         |           |                     |                     |                      |                  |          |  |  |  |  |  |  |
|--------------------------------|------------|---------|-----------|---------------------|---------------------|----------------------|------------------|----------|--|--|--|--|--|--|
| BW (MHz)                       | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Turnup time (dB) | MPE (dB) |  |  |  |  |  |  |
| Channel                        |            |         |           |                     |                     |                      |                  |          |  |  |  |  |  |  |
| Frequency (MHz)                |            |         |           |                     |                     |                      |                  |          |  |  |  |  |  |  |
| 10                             | QPSK       | 1       | 0         | 22.67               | 22.71               | 22.60                | 24               | 0        |  |  |  |  |  |  |
| 10                             | QPSK       | 1       | 25        | 22.57               | 22.68               | 22.68                |                  |          |  |  |  |  |  |  |
| 10                             | QPSK       | 1       | 49        | 22.84               | 22.87               | 22.85                |                  |          |  |  |  |  |  |  |
| 10                             | QPSK       | 25      | 0         | 21.63               | 21.79               | 21.66                |                  |          |  |  |  |  |  |  |
| 10                             | QPSK       | 25      | 12        | 21.41               | 21.47               | 21.73                | 23               | 1        |  |  |  |  |  |  |
| 10                             | QPSK       | 25      | 25        | 21.46               | 21.60               | 21.58                |                  |          |  |  |  |  |  |  |
| 10                             | QPSK       | 50      | 0         | 21.63               | 21.55               | 21.32                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 1       | 0         | 21.69               | 21.85               | 21.73                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 1       | 25        | 21.70               | 21.79               | 21.71                | 23               | 1        |  |  |  |  |  |  |
| 10                             | HQAM       | 1       | 49        | 21.62               | 21.76               | 21.69                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 25      | 0         | 20.80               | 20.95               | 20.73                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 25      | 12        | 20.72               | 20.76               | 20.84                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 25      | 25        | 20.74               | 20.79               | 20.81                | 22               | 2        |  |  |  |  |  |  |
| 10                             | HQAM       | 50      | 0         | 20.54               | 20.66               | 20.53                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 1       | 0         | 20.70               | 20.69               | 20.85                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 1       | 25        | 20.67               | 20.67               | 20.84                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 1       | 49        | 20.62               | 20.59               | 20.66                | 22               | 2        |  |  |  |  |  |  |
| 10                             | HQAM       | 25      | 0         | 19.62               | 19.59               | 19.55                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 25      | 12        | 19.52               | 19.63               | 19.36                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 25      | 25        | 19.58               | 19.66               | 19.45                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 50      | 0         | 19.63               | 19.59               | 19.45                | 21               | 3        |  |  |  |  |  |  |
| 10                             | HQAM       | 1       | 25        | 17.69               | 17.77               | 17.58                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 1       | 25        | 17.60               | 17.77               | 17.58                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 1       | 49        | 17.66               | 17.79               | 17.42                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 25      | 12        | 17.55               | 17.65               | 17.52                | 19               | 5        |  |  |  |  |  |  |
| 10                             | HQAM       | 25      | 25        | 17.58               | 17.69               | 17.59                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 25      | 12        | 17.55               | 17.69               | 17.59                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 25      | 25        | 17.63               | 17.79               | 17.57                |                  |          |  |  |  |  |  |  |
| 10                             | HQAM       | 50      | 0         | 17.69               | 17.60               | 17.42                | 19               | 5        |  |  |  |  |  |  |
| Channel                        |            |         |           |                     |                     |                      |                  |          |  |  |  |  |  |  |
| Frequency (MHz)                |            |         |           |                     |                     |                      |                  |          |  |  |  |  |  |  |
| 5                              | QPSK       | 1       | 0         | 22.67               | 22.68               | 22.54                | 24               | 0        |  |  |  |  |  |  |
| 5                              | QPSK       | 1       | 12        | 22.60               | 22.48               | 22.41                |                  |          |  |  |  |  |  |  |
| 5                              | QPSK       | 1       | 24        | 22.39               | 22.55               | 22.42                |                  |          |  |  |  |  |  |  |
| 5                              | QPSK       | 12      | 0         | 21.61               | 21.68               | 21.51                |                  |          |  |  |  |  |  |  |
| 5                              | QPSK       | 12      | 7         | 21.14               | 21.42               | 21.61                | 23               | 1        |  |  |  |  |  |  |
| 5                              | QPSK       | 12      | 13        | 21.33               | 21.53               | 21.46                |                  |          |  |  |  |  |  |  |
| 5                              | QPSK       | 25      | 0         | 21.46               | 21.97               | 21.24                |                  |          |  |  |  |  |  |  |
| 5                              | HQAM       | 1       | 0         | 21.55               | 21.71               | 21.69                |                  |          |  |  |  |  |  |  |
| 5                              | HQAM       | 1       | 12        | 21.67               | 21.66               | 21.67                | 23               | 1        |  |  |  |  |  |  |
| 5                              | HQAM       | 1       | 24        | 21.64               | 21.69               | 21.59                |                  |          |  |  |  |  |  |  |
| 5                              | HQAM       | 12      | 0         | 20.76               | 20.90               | 20.63                |                  |          |  |  |  |  |  |  |
| 5                              | HQAM       | 12      | 7         | 20.70               | 20.71               | 20.47                |                  |          |  |  |  |  |  |  |
| 5                              | HQAM       | 25      | 0         | 17.65               | 17.60               | 17.62                | 22               | 2        |  |  |  |  |  |  |
| 5                              | HQAM       | 25      | 0         | 20.40               | 20.63               | 20.59                |                  |          |  |  |  |  |  |  |
| 5                              | HQAM       | 1       | 0         | 20.58               | 20.58               | 20.59                |                  |          |  |  |  |  |  |  |
| 5                              | HQAM       | 1       | 12        | 20.44               | 20.47               | 20.48                |                  |          |  |  |  |  |  |  |
| 5                              | HQAM       | 1       | 24        | 20.39               | 20.35               | 20.39                | 22               | 2        |  |  |  |  |  |  |
| 5                              | HQAM       | 12      | 0         | 19.62               | 19.43               | 19.37                |                  |          |  |  |  |  |  |  |
| 5                              | HQAM       | 12      | 7         | 19.48               | 19.43               | 19.35                |                  |          |  |  |  |  |  |  |
| 5                              | HQAM       | 12      | 13        | 19.51               | 19.44               | 19.38                |                  |          |  |  |  |  |  |  |
| 5                              | HQAM       | 25      | 0         | 19.45               | 19.45               | 19.36                | 21               | 3        |  |  |  |  |  |  |
| 5                              | HQAM       | 1       | 12        | 17.63               | 17.64               | 17.62                |                  |          |  |  |  |  |  |  |
| 5                              | HQAM       | 1       | 12        | 17.63               | 17.74               | 17.52                |                  |          |  |  |  |  |  |  |
| 5                              | HQAM       | 1       | 24        | 17.61               | 17.63               | 17.26                |                  |          |  |  |  |  |  |  |
| 5                              | HQAM       | 12      | 0         | 17.60               | 17.66               | 17.46                | 19               | 5        |  |  |  |  |  |  |
| 5                              | HQAM       | 12      | 7         | 17.51               | 17.52               | 17.49                |                  |          |  |  |  |  |  |  |
| 5                              | HQAM       | 12      | 13        | 17.60               | 17.69               | 17.59                |                  |          |  |  |  |  |  |  |
| 5                              | HQAM       | 25      | 0         | 17.51               | 17.58               | 17.27                |                  |          |  |  |  |  |  |  |
| Channel                        |            |         |           |                     |                     |                      |                  |          |  |  |  |  |  |  |
| Frequency (MHz)                |            |         |           |                     |                     |                      |                  |          |  |  |  |  |  |  |
| 3                              | QPSK       | 1       | 0         | 22.62               | 22.54               | 22.55                | 24               | 0        |  |  |  |  |  |  |
| 3                              | QPSK       | 1       | 8         | 22.39               | 22.63               | 22.42                |                  |          |  |  |  |  |  |  |
| 3                              | QPSK       | 1       | 14        | 22.37               | 22.63               | 22.48                |                  |          |  |  |  |  |  |  |
| 3                              | QPSK       | 8       | 0         | 21.49               | 21.66               | 21.46                |                  |          |  |  |  |  |  |  |
| 3                              | QPSK       | 8       | 4         | 21.29               | 21.39               | 21.67                | 23               | 1        |  |  |  |  |  |  |
| 3                              | QPSK       | 8       | 7         | 21.43               | 21.45               | 21.48                |                  |          |  |  |  |  |  |  |
| 3                              | QPSK       | 16      | 0         | 21.46               | 21.43               | 21.22                |                  |          |  |  |  |  |  |  |
| 3                              | HQAM       | 1       | 0         | 21.66               | 21.69               | 21.68                |                  |          |  |  |  |  |  |  |
| 3                              | HQAM       | 1       | 8         | 21.62               | 21.71               | 21.68                | 23               | 1        |  |  |  |  |  |  |
| 3                              | HQAM       | 1       | 14        | 21.46               | 21.60               | 21.54                |                  |          |  |  |  |  |  |  |
| 3                              | HQAM       | 8       | 0         | 20.79               | 20.54               | 20.68                |                  |          |  |  |  |  |  |  |
| 3                              | HQAM       | 8       | 4         | 20.67               | 20.68               | 20.60                |                  |          |  |  |  |  |  |  |
| 3                              | HQAM       | 8       | 7         | 20.63               | 20.71               | 20.63                | 22               | 2        |  |  |  |  |  |  |
| 3                              | HQAM       | 15      | 0         | 20.40               | 20.58               | 20.45                |                  |          |  |  |  |  |  |  |
| 3                              | HQAM       | 1       | 0         | 20.65               | 20.68               | 20.48                |                  |          |  |  |  |  |  |  |
| 3                              | HQAM       | 8       | 0         | 20.51               | 20.55               | 20.50                |                  |          |  |  |  |  |  |  |
| 3                              | HQAM       | 1       | 14        | 20.45               | 20.44               | 20.54                | 21               | 3        |  |  |  |  |  |  |
| 3                              | HQAM       | 8       | 0         | 19.62               | 19.46               | 19.46                |                  |          |  |  |  |  |  |  |
| 3                              | HQAM       | 8       | 4         | 19.46               | 19.45               | 19.32                |                  |          |  |  |  |  |  |  |
| 3                              | HQAM       | 8       | 7         | 19.65               | 19.52               | 19.29                |                  |          |  |  |  |  |  |  |
| 3                              | HQAM       | 15      | 0         | 19.43               | 19.36               | 19.39                | 19               | 5        |  |  |  |  |  |  |
| 3                              | HQAM       | 1       | 0         | 17.65               | 17.66               | 17.49                |                  |          |  |  |  |  |  |  |
| 3                              | HQAM       | 1       | 8         | 17.63               | 17.63               | 17.54                |                  |          |  |  |  |  |  |  |
| 3                              | HQAM       | 1       | 14        | 17.63               | 17.61               | 17.36                |                  |          |  |  |  |  |  |  |
| 3                              | HQAM       | 8       | 0         | 17.65               | 17.63               | 17.60                | 19               | 5        |  |  |  |  |  |  |
| 3                              | HQAM       | 8       | 4         | 17.60               | 17.58               | 17.47                |                  |          |  |  |  |  |  |  |
| 3                              | HQAM       | 8       | 7         | 17.46               | 17.75               | 17.49                |                  |          |  |  |  |  |  |  |
| 3                              | HQAM       | 15      | 0         | 17.51               | 17.38               | 17.24                |                  |          |  |  |  |  |  |  |
| Channel                        |            |         |           |                     |                     |                      |                  |          |  |  |  |  |  |  |
| Frequency (MHz)                |            |         |           |                     |                     |                      |                  |          |  |  |  |  |  |  |
| 1.4                            | QPSK       | 1       | 0         | 22.34               | 22.49               | 22.44                | 24               | 0        |  |  |  |  |  |  |
| 1.4                            | QPSK       | 1       | 3         | 22.39               | 22.48               | 22.53                |                  |          |  |  |  |  |  |  |
| 1.4                            | QPSK       | 1       | 5         | 22.39               | 22.52               | 22.35                |                  |          |  |  |  |  |  |  |
| 1.4                            | QPSK       | 3       | 0         | 22.35               | 22.43               | 22.42                |                  |          |  |  |  |  |  |  |
| 1.4                            | QPSK       | 3       | 1         | 22.36               | 22.35               | 22.57                | 23               | 1        |  |  |  |  |  |  |
| 1.4                            | QPSK       | 3       | 3         | 22.34               | 22.48               | 22.30                |                  |          |  |  |  |  |  |  |
| 1.4                            | QPSK       | 8       | 0         | 21.47               | 21.70               | 21.52                |                  |          |  |  |  |  |  |  |
| 1.4                            | HQAM       | 1       | 0         | 21.44               | 21.71               | 21.60                |                  |          |  |  |  |  |  |  |
| 1.4                            | HQAM       | 1       | 3         | 21.37               | 21.55               | 21.33                | 23               | 1        |  |  |  |  |  |  |
| 1.4                            | HQAM       | 1       | 5         | 21.26               | 21.53               | 21.52                |                  |          |  |  |  |  |  |  |
| 1.4                            | HQAM       | 3       | 0         | 21.41               | 21.62               | 21.46                |                  |          |  |  |  |  |  |  |
| 1.4                            | HQAM       | 3       | 1         | 21.30               | 21.54               | 21.21                |                  |          |  |  |  |  |  |  |
| 1.4                            | HQAM       | 8       | 0         | 21.44               | 21.47               | 21.38                | 22               | 2        |  |  |  |  |  |  |
| 1.4                            | HQAM       | 8       | 0         | 20.45               | 20.42               | 20.24                |                  |          |  |  |  |  |  |  |
| 1.4                            | HQAM       | 1       | 0         | 20.58               | 20.79               | 20.55                |                  |          |  |  |  |  |  |  |
| 1.4                            | HQAM       | 1       | 3         | 20.61               | 20.48               | 20.38                |                  |          |  |  |  |  |  |  |
| 1.4                            | HQAM       | 1       | 5         | 20.62               | 20.76               | 20.58                | 22               | 2        |  |  |  |  |  |  |
| 1.4                            | HQAM       | 3       | 0         | 20.52               | 20.69               | 20.50                |                  |          |  |  |  |  |  |  |
| 1.4                            | HQAM       | 3       | 1         | 20.70               | 20.49               | 20.52                |                  |          |  |  |  |  |  |  |
| 1.4                            | HQAM       | 3       | 3         | 20.56               | 20.44               | 20.45                |                  |          |  |  |  |  |  |  |
| 1.4                            | HQAM       | 8       | 0         | 19.62               | 19.68               | 19.41                | 21               | 3        |  |  |  |  |  |  |
| 1.4                            | HQAM       | 1       | 0         | 17.40               | 17.46               | 17.58                |                  |          |  |  |  |  |  |  |
| 1.4                            | HQAM       | 1       | 3         | 17.27               | 17.50               | 17.30                |                  |          |  |  |  |  |  |  |
| 1.4                            | HQAM       | 1       | 5         | 17.31               | 17.42               | 17.29                |                  |          |  |  |  |  |  |  |
| 1.4                            | HQAM       | 3       | 0         | 17.28               | 17.44               | 17.43                | 19               | 5        |  |  |  |  |  |  |
| 1.4                            | HQAM       | 3       | 1         | 17.25               | 17.26               | 17.31                |                  |          |  |  |  |  |  |  |
| 1.4                            | HQAM       | 3       | 3         | 17.22               | 17.17               | 17.26                |                  |          |  |  |  |  |  |  |
| 1.4                            | HQAM       | 5       | 0         | 17.44               | 17.21               | 17.25                |                  |          |  |  |  |  |  |  |

| Band 25 Ant0 DSi2 Simultaneous |            |         |           |                     |                     |                      |                    |          |  |  |    |   |  |  |
|--------------------------------|------------|---------|-----------|---------------------|---------------------|----------------------|--------------------|----------|--|--|----|---|--|--|
| BW (MHz)                       | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Mid Ch./Freq. | Power High Ch./Freq. | Turn-up time (sec) | MPR (dB) |  |  |    |   |  |  |
| Channel                        |            |         |           |                     |                     |                      |                    |          |  |  |    |   |  |  |
| Frequency (MHz)                |            |         |           |                     |                     |                      |                    |          |  |  |    |   |  |  |
| 20                             | QPSK       | 1       | 0         | 22.25               | 22.32               | 22.38                | 24                 | 0        |  |  |    |   |  |  |
| 20                             | QPSK       | 1       | 48        | 22.14               | 22.24               | 22.32                |                    |          |  |  |    |   |  |  |
| 20                             | QPSK       | 1       | 96        | 22.03               | 22.16               | 22.23                |                    |          |  |  |    |   |  |  |
| 20                             | QPSK       | 50      | 0         | 21.30               | 21.41               | 21.50                |                    |          |  |  |    |   |  |  |
| 20                             | QPSK       | 30      | 24        | 21.33               | 21.29               | 21.34                | 23                 | 1        |  |  |    |   |  |  |
| 20                             | QPSK       | 50      | 50        | 21.24               | 21.24               | 21.10                |                    |          |  |  |    |   |  |  |
| 20                             | QPSK       | 100     | 0         | 21.55               | 21.52               | 21.51                |                    |          |  |  |    |   |  |  |
| 20                             | 16QAM      | 50      | 0         | 21.48               | 21.58               | 21.49                |                    |          |  |  |    |   |  |  |
| 20                             | 16QAM      | 1       | 48        | 21.37               | 21.45               | 21.34                | 23                 | 1        |  |  |    |   |  |  |
| 20                             | 16QAM      | 1       | 96        | 21.40               | 21.53               | 21.31                |                    |          |  |  |    |   |  |  |
| 20                             | 16QAM      | 50      | 0         | 20.32               | 20.33               | 20.28                |                    |          |  |  |    |   |  |  |
| 20                             | 16QAM      | 50      | 24        | 20.22               | 20.29               | 20.14                |                    |          |  |  |    |   |  |  |
| 20                             | 16QAM      | 50      | 50        | 20.16               | 20.20               | 20.25                | 22                 | 2        |  |  |    |   |  |  |
| 20                             | 16QAM      | 100     | 0         | 20.15               | 20.21               | 20.19                |                    |          |  |  |    |   |  |  |
| 20                             | 16QAM      | 1       | 0         | 20.20               | 20.32               | 20.25                |                    |          |  |  |    |   |  |  |
| 20                             | 16QAM      | 1       | 48        | 20.11               | 20.16               | 20.22                |                    |          |  |  |    |   |  |  |
| 20                             | 16QAM      | 1       | 96        | 20.10               | 20.22               | 20.18                | 21                 | 3        |  |  |    |   |  |  |
| 20                             | 16QAM      | 50      | 0         | 19.51               | 19.53               | 19.25                |                    |          |  |  |    |   |  |  |
| 20                             | 16QAM      | 50      | 24        | 19.28               | 19.27               | 19.13                |                    |          |  |  |    |   |  |  |
| 20                             | 16QAM      | 50      | 50        | 19.23               | 19.23               | 19.21                |                    |          |  |  |    |   |  |  |
| 20                             | 256QAM     | 1       | 0         | 17.20               | 17.36               | 17.29                | 19                 | 5        |  |  |    |   |  |  |
| 20                             | 256QAM     | 1       | 48        | 17.13               | 17.25               | 17.13                |                    |          |  |  |    |   |  |  |
| 20                             | 256QAM     | 1       | 96        | 17.23               | 17.18               | 17.23                |                    |          |  |  |    |   |  |  |
| 20                             | 256QAM     | 1       | 192       | 17.20               | 17.23               | 17.20                |                    |          |  |  |    |   |  |  |
| 20                             | 256QAM     | 50      | 24        | 17.12               | 17.20               | 17.13                | 19                 | 5        |  |  |    |   |  |  |
| 20                             | 256QAM     | 50      | 50        | 17.28               | 17.15               | 17.21                |                    |          |  |  |    |   |  |  |
| 20                             | 256QAM     | 100     | 0         | 17.40               | 17.18               | 17.21                |                    |          |  |  |    |   |  |  |
| Channel                        |            |         |           |                     |                     |                      |                    |          |  |  |    |   |  |  |
| Frequency (MHz)                |            |         |           |                     |                     |                      |                    |          |  |  |    |   |  |  |
| 15                             | QPSK       | 1       | 0         | 22.16               | 22.21               | 22.19                | 24                 | 0        |  |  |    |   |  |  |
| 15                             | QPSK       | 1       | 48        | 22.06               | 22.18               | 22.03                |                    |          |  |  |    |   |  |  |
| 15                             | QPSK       | 1       | 96        | 22.00               | 22.10               | 22.18                |                    |          |  |  |    |   |  |  |
| 15                             | QPSK       | 30      | 0         | 21.32               | 21.34               | 21.17                |                    |          |  |  |    |   |  |  |
| 15                             | QPSK       | 30      | 24        | 21.27               | 21.14               | 21.12                | 23                 | 1        |  |  |    |   |  |  |
| 15                             | QPSK       | 30      | 36        | 21.14               | 21.11               | 21.22                |                    |          |  |  |    |   |  |  |
| 15                             | QPSK       | 75      | 0         | 21.40               | 21.55               | 21.40                |                    |          |  |  |    |   |  |  |
| 15                             | 16QAM      | 50      | 0         | 21.38               | 21.43               | 21.40                |                    |          |  |  |    |   |  |  |
| 15                             | 16QAM      | 1       | 37        | 21.28               | 21.34               | 21.29                | 23                 | 1        |  |  |    |   |  |  |
| 15                             | 16QAM      | 1       | 75        | 21.26               | 21.42               | 21.29                |                    |          |  |  |    |   |  |  |
| 15                             | 16QAM      | 30      | 0         | 20.19               | 20.26               | 20.13                |                    |          |  |  |    |   |  |  |
| 15                             | 16QAM      | 30      | 20        | 20.13               | 20.20               | 20.04                |                    |          |  |  |    |   |  |  |
| 15                             | 16QAM      | 50      | 0         | 20.10               | 20.14               | 20.04                | 22                 | 2        |  |  |    |   |  |  |
| 15                             | 16QAM      | 50      | 24        | 20.21               | 20.22               | 20.15                |                    |          |  |  |    |   |  |  |
| 15                             | 16QAM      | 50      | 37        | 20.04               | 20.04               | 20.10                |                    |          |  |  |    |   |  |  |
| 15                             | 16QAM      | 1       | 74        | 20.10               | 20.08               | 20.02                |                    |          |  |  |    |   |  |  |
| 15                             | 16QAM      | 30      | 0         | 19.20               | 19.21               | 19.13                | 21                 | 3        |  |  |    |   |  |  |
| 15                             | 16QAM      | 30      | 20        | 19.22               | 19.16               | 19.15                |                    |          |  |  |    |   |  |  |
| 15                             | 16QAM      | 30      | 50        | 19.12               | 19.13               | 19.02                |                    |          |  |  |    |   |  |  |
| 15                             | 16QAM      | 75      | 0         | 19.12               | 19.07               | 19.02                |                    |          |  |  |    |   |  |  |
| 15                             | 256QAM     | 1       | 0         | 17.02               | 17.20               | 17.08                | 19                 | 5        |  |  |    |   |  |  |
| 15                             | 256QAM     | 1       | 37        | 17.07               | 17.12               | 17.07                |                    |          |  |  |    |   |  |  |
| 15                             | 256QAM     | 1       | 74        | 17.14               | 17.11               | 17.16                |                    |          |  |  |    |   |  |  |
| 15                             | 256QAM     | 30      | 0         | 17.14               | 17.13               | 17.08                |                    |          |  |  |    |   |  |  |
| 15                             | 256QAM     | 30      | 20        | 17.02               | 17.08               | 17.05                | 19                 | 5        |  |  |    |   |  |  |
| 15                             | 256QAM     | 30      | 36        | 17.17               | 17.04               | 17.13                |                    |          |  |  |    |   |  |  |
| 15                             | 256QAM     | 75      | 0         | 17.47               | 17.11               | 17.18                |                    |          |  |  |    |   |  |  |
| Channel                        |            |         |           |                     |                     |                      |                    |          |  |  |    |   |  |  |
| Frequency (MHz)                |            |         |           |                     |                     |                      |                    |          |  |  |    |   |  |  |
| 10                             | QPSK       | 1       | 0         | 22.10               | 22.27               | 22.18                | 24                 | 0        |  |  |    |   |  |  |
| 10                             | QPSK       | 1       | 48        | 22.08               | 22.14               | 22.02                |                    |          |  |  |    |   |  |  |
| 10                             | QPSK       | 1       | 96        | 22.11               | 22.10               | 22.15                |                    |          |  |  |    |   |  |  |
| 10                             | QPSK       | 20      | 0         | 21.20               | 21.24               | 21.16                |                    |          |  |  |    |   |  |  |
| 10                             | QPSK       | 15      | 12        | 21.24               | 21.15               | 21.14                | 23                 | 1        |  |  |    |   |  |  |
| 10                             | QPSK       | 25      | 25        | 21.18               | 21.16               | 21.00                |                    |          |  |  |    |   |  |  |
| 10                             | QPSK       | 50      | 0         | 21.48               | 21.51               | 21.40                |                    |          |  |  |    |   |  |  |
| 10                             | 16QAM      | 50      | 0         | 21.38               | 21.51               | 21.40                |                    |          |  |  |    |   |  |  |
| 10                             | 16QAM      | 1       | 25        | 21.31               | 21.32               | 21.20                | 23                 | 1        |  |  |    |   |  |  |
| 10                             | 16QAM      | 1       | 40        | 21.28               | 21.42               | 21.28                |                    |          |  |  |    |   |  |  |
| 10                             | 16QAM      | 25      | 0         | 20.24               | 20.26               | 20.14                |                    |          |  |  |    |   |  |  |
| 10                             | 16QAM      | 25      | 12        | 20.15               | 20.24               | 20.01                |                    |          |  |  |    |   |  |  |
| 10                             | 16QAM      | 30      | 0         | 20.13               | 20.14               | 20.08                | 22                 | 2        |  |  |    |   |  |  |
| 10                             | 16QAM      | 50      | 0         | 20.08               | 20.08               | 20.07                |                    |          |  |  |    |   |  |  |
| 10                             | 16QAM      | 1       | 0         | 20.21               | 20.18               | 20.11                |                    |          |  |  |    |   |  |  |
| 10                             | 16QAM      | 1       | 20        | 20.05               | 20.04               | 20.14                |                    |          |  |  |    |   |  |  |
| 10                             | 16QAM      | 1       | 40        | 20.10               | 20.14               | 20.11                | 21                 | 3        |  |  |    |   |  |  |
| 10                             | 16QAM      | 25      | 0         | 19.16               | 19.24               | 19.18                |                    |          |  |  |    |   |  |  |
| 10                             | 16QAM      | 25      | 12        | 19.20               | 19.16               | 19.03                |                    |          |  |  |    |   |  |  |
| 10                             | 16QAM      | 50      | 0         | 19.10               | 19.10               | 19.08                |                    |          |  |  |    |   |  |  |
| 10                             | 16QAM      | 50      | 0         | 19.08               | 19.13               | 19.09                | 19                 | 5        |  |  |    |   |  |  |
| 10                             | 256QAM     | 1       | 0         | 17.02               | 17.22               | 17.10                |                    |          |  |  |    |   |  |  |
| 10                             | 256QAM     | 1       | 25        | 17.06               | 17.14               | 17.05                |                    |          |  |  |    |   |  |  |
| 10                             | 256QAM     | 25      | 25        | 17.13               | 17.09               | 17.14                |                    |          |  |  |    |   |  |  |
| 10                             | 256QAM     | 50      | 0         | 17.03               | 17.13               | 17.07                | 19                 | 5        |  |  |    |   |  |  |
| Channel                        |            |         |           |                     |                     |                      |                    |          |  |  |    |   |  |  |
| Frequency (MHz)                |            |         |           |                     |                     |                      |                    |          |  |  |    |   |  |  |
| 5                              | QPSK       | 1       | 0         | 22.12               | 22.27               | 22.15                | 24                 | 0        |  |  |    |   |  |  |
| 5                              | QPSK       | 1       | 12        | 22.03               | 22.18               | 22.03                |                    |          |  |  |    |   |  |  |
| 5                              | QPSK       | 1       | 24        | 22.15               | 22.10               | 22.16                |                    |          |  |  |    |   |  |  |
| 5                              | QPSK       | 10      | 0         | 21.30               | 21.38               | 21.20                |                    |          |  |  |    |   |  |  |
| 5                              | QPSK       | 12      | 7         | 21.21               | 21.19               | 21.17                | 23                 | 1        |  |  |    |   |  |  |
| 5                              | QPSK       | 12      | 13        | 21.13               | 21.12               | 21.05                |                    |          |  |  |    |   |  |  |
| 5                              | QPSK       | 20      | 0         | 21.41               | 21.55               | 21.43                |                    |          |  |  |    |   |  |  |
| 5                              | 16QAM      | 1       | 0         | 21.41               | 21.45               | 21.43                |                    |          |  |  |    |   |  |  |
| 5                              | 16QAM      | 1       | 12        | 21.31               | 21.30               | 21.24                | 23                 | 1        |  |  |    |   |  |  |
| 5                              | 16QAM      | 8       | 0         | 21.35               | 21.14               | 21.23                |                    |          |  |  |    |   |  |  |
| 5                              | 16QAM      | 12      | 0         | 20.22               | 20.26               | 20.22                |                    |          |  |  |    |   |  |  |
| 5                              | 16QAM      | 12      | 7         | 20.10               | 20.15               | 20.08                |                    |          |  |  |    |   |  |  |
| 5                              | 16QAM      | 15      | 0         | 20.08               | 20.08               | 20.12                | 22                 | 2        |  |  |    |   |  |  |
| 5                              | 16QAM      | 25      | 0         | 20.01               | 20.16               | 20.11                |                    |          |  |  |    |   |  |  |
| 5                              | 16QAM      | 1       | 0         | 20.21               | 20.23               | 20.12                |                    |          |  |  |    |   |  |  |
| 5                              | 16QAM      | 1       | 12        | 20.07               | 20.05               | 20.09                |                    |          |  |  |    |   |  |  |
| 5                              | 16QAM      | 1       | 24        | 20.00               | 20.15               | 20.04                | 21                 | 3        |  |  |    |   |  |  |
| 5                              | 16QAM      | 12      | 0         | 19.21               | 19.19               | 19.14                |                    |          |  |  |    |   |  |  |
| 5                              | 16QAM      | 12      | 7         | 19.16               | 19.14               | 19.08                |                    |          |  |  |    |   |  |  |
| 5                              | 16QAM      | 25      | 0         | 19.13               | 19.22               | 19.09                |                    |          |  |  |    |   |  |  |
| 5                              | 16QAM      | 25      | 0         | 17.11               | 17.24               | 17.22                | 19                 | 5        |  |  |    |   |  |  |
| 5                              | 256QAM     | 1       | 0         | 17.01               | 17.19               | 17.06                |                    |          |  |  |    |   |  |  |
| 5                              | 256QAM     | 1       | 12        | 17.10               | 17.10               | 17.14                |                    |          |  |  |    |   |  |  |
| 5                              | 256QAM     | 12      | 0         | 17.12               | 17.22               | 17.24                |                    |          |  |  |    |   |  |  |
| 5                              | 256QAM     | 12      | 7         | 17.04               | 17.17               | 17.01                | 19                 | 5        |  |  |    |   |  |  |
| 5                              | 256QAM     | 12      | 13        | 17.14               | 17.05               | 17.11                |                    |          |  |  |    |   |  |  |
| 5                              | 256QAM     | 25      | 0         | 17.10               | 17.08               | 17.05                |                    |          |  |  |    |   |  |  |
| Channel                        |            |         |           |                     |                     |                      |                    |          |  |  |    |   |  |  |
| Frequency (MHz)                |            |         |           |                     |                     |                      |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 0         | 22.18               | 22.27               | 22.15                | 24                 | 0        |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 8         | 22.05               | 22.19               | 22.02                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 16        | 22.00               | 22.10               | 22.18                | 23                 | 1        |  |  |    |   |  |  |
| 1.4                            | QPSK       | 8       | 0         | 21.37               | 21.30               | 21.20                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 8       | 8         | 21.21               | 21.12               | 21.04                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 8       | 7         | 21.17               | 21.10               | 21.03                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 15      | 0         | 21.43               | 21.49               | 21.41                | 23                 | 1        |  |  |    |   |  |  |
| 1.4                            | QPSK       | 15      | 8         | 21.21               | 21.12               | 21.04                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 15      | 7         | 21.17               | 21.10               | 21.03                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 8         | 21.31               | 21.32               | 21.26                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 14        | 21.29               | 21.28               | 21.20                | 22                 | 2        |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 14        | 21.29               | 21.28               | 21.20                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 8       | 0         | 20.15               | 20.21               | 20.05                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 8       | 7         | 20.07               | 20.08               | 20.14                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 8         | 20.21               | 20.10               | 20.18                | 22                 | 2        |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 8         | 20.18               | 20.20               | 20.18                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 8         | 20.06               | 20.11               | 20.11                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 8       | 0         | 19.19               | 19.24               | 19.13                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 8       | 0         | 18.20               | 18.18               | 19.11                | 21                 | 3        |  |  |    |   |  |  |
| 1.4                            | QPSK       | 8       | 8         | 18.16               | 18.17               | 19.10                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 15      | 0         | 19.09               | 19.21               | 19.04                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 0         | 17.01               | 17.23               | 17.10                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 0         | 17.05               | 17.10               | 17.00                | 19                 | 5        |  |  |    |   |  |  |
| 1.4                            | 256QAM     | 1       | 14        | 17.16               | 17.03               | 17.12                |                    |          |  |  |    |   |  |  |
| 1.4                            | 256QAM     | 1       | 17        | 17.14               | 17.05               | 17.13                |                    |          |  |  |    |   |  |  |
| 1.4                            | 256QAM     | 8       | 0         | 17.01               | 17.15               | 17.05                |                    |          |  |  |    |   |  |  |
| 1.4                            | 256QAM     | 8       | 7         | 17.15               | 17.07               | 17.14                | 19                 | 5        |  |  |    |   |  |  |
| 1.4                            | 256QAM     | 8       | 0         | 17.11               | 17.05               | 17.05                |                    |          |  |  |    |   |  |  |
| Channel                        |            |         |           |                     |                     |                      |                    |          |  |  |    |   |  |  |
| Frequency (MHz)                |            |         |           |                     |                     |                      |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 0         | 22.08               | 22.29               | 22.24                |                    |          |  |  | 24 | 0 |  |  |
| 1.4                            | QPSK       | 1       | 8         | 22.00               | 22.21               | 22.16                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 16        | 22.04               | 22.20               | 22.22                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 3       | 0         | 22.04               | 22.08               | 21.18                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 3       | 3         | 22.00               | 22.16               | 22.15                | 23                 | 1        |  |  |    |   |  |  |
| 1.4                            | QPSK       | 3       | 3         | 22.00               | 22.16               | 22.15                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 0         | 21.28               | 21.34               | 21.37                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 0         | 21.21               | 21.33               | 21.30                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 3       | 3         | 21.11               | 21.31               | 21.68                | 22                 | 2        |  |  |    |   |  |  |
| 1.4                            | QPSK       | 3       | 3         | 21.52               | 21.32               | 21.31                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 0         | 20.12               | 20.16               | 20.01                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 1       | 0         | 20.02               | 20.06               | 20.02                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 3       | 3         | 20.37               | 20.40               | 20.25                | 22                 | 2        |  |  |    |   |  |  |
| 1.4                            | QPSK       | 3       | 3         | 20.37               | 20.40               | 20.25                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 3       | 3         | 20.37               | 20.37               | 20.21                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 3       | 3         | 20.37               | 20.37               | 20.21                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 6       | 0         | 19.31               | 19.36               | 19.10                | 21                 | 3        |  |  |    |   |  |  |
| 1.4                            | QPSK       | 6       | 0         | 19.31               | 19.36               | 19.10                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 6       | 0         | 17.01               | 17.01               | 17.01                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 6       | 0         | 17.01               | 17.01               | 17.01                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 6       | 0         | 17.01               | 17.01               | 17.01                | 19                 | 5        |  |  |    |   |  |  |
| 1.4                            | QPSK       | 6       | 0         | 17.01               | 17.01               | 17.01                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 6       | 0         | 17.01               | 17.01               | 17.01                |                    |          |  |  |    |   |  |  |
| 1.4                            | QPSK       | 6       | 0         | 17.01               | 17.01               | 17.01                |                    |          |  |  |    |   |  |  |

| Band 4 Ant1 DS12 Simultaneous |            |         |           |                           |                           |                            |                          |             |      |     |  |  |  |
|-------------------------------|------------|---------|-----------|---------------------------|---------------------------|----------------------------|--------------------------|-------------|------|-----|--|--|--|
| BW (MHz)                      | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch./Freq. | Power<br>Med<br>Ch./Freq. | Power<br>High<br>Ch./Freq. | Turn-up<br>Intvl<br>(dB) | MPE<br>(dB) |      |     |  |  |  |
| Channel                       |            |         |           |                           |                           |                            |                          |             |      |     |  |  |  |
| Frequency (MHz)               |            |         |           |                           |                           |                            |                          |             |      |     |  |  |  |
| 20                            | QPSK       | 1       | 0         | 22.07                     | 22.23                     | 22.13                      |                          |             | 23.3 | 0   |  |  |  |
| 20                            | QPSK       | 1       | 49        | 21.99                     | 22.00                     | 21.95                      |                          |             |      |     |  |  |  |
| 20                            | QPSK       | 1       | 99        | 21.89                     | 22.02                     | 21.91                      |                          |             | 23   | 0.3 |  |  |  |
| 20                            | QPSK       | 50      | 0         | 21.98                     | 21.99                     | 21.91                      |                          |             |      |     |  |  |  |
| 20                            | QPSK       | 24      | 0         | 21.99                     | 21.91                     | 21.99                      |                          |             | 23   | 0.3 |  |  |  |
| 20                            | QPSK       | 50      | 50        | 21.72                     | 21.76                     | 21.76                      |                          |             |      |     |  |  |  |
| 20                            | QPSK       | 100     | 0         | 21.63                     | 21.71                     | 21.69                      |                          |             | 22   | 1.3 |  |  |  |
| 20                            | QPSK       | 150     | 0         | 22.11                     | 22.04                     | 22.09                      |                          |             |      |     |  |  |  |
| 20                            | HQAM       | 1       | 99        | 22.01                     | 22.01                     | 21.98                      |                          |             | 22   | 1.3 |  |  |  |
| 20                            | HQAM       | 50      | 0         | 20.91                     | 21.03                     | 20.99                      |                          |             |      |     |  |  |  |
| 20                            | HQAM       | 50      | 24        | 20.92                     | 20.95                     | 20.97                      |                          |             | 21   | 2.3 |  |  |  |
| 20                            | HQAM       | 50      | 50        | 20.81                     | 20.88                     | 20.78                      |                          |             |      |     |  |  |  |
| 20                            | HQAM       | 100     | 0         | 20.85                     | 20.91                     | 20.92                      |                          |             | 22   | 1.3 |  |  |  |
| 20                            | HQAM       | 1       | 0         | 21.01                     | 21.07                     | 21.01                      |                          |             |      |     |  |  |  |
| 20                            | HQAM       | 1       | 49        | 20.86                     | 20.89                     | 20.87                      |                          |             | 22   | 1.3 |  |  |  |
| 20                            | HQAM       | 50      | 0         | 19.96                     | 20.04                     | 19.95                      |                          |             |      |     |  |  |  |
| 20                            | HQAM       | 50      | 24        | 19.98                     | 20.05                     | 20.00                      |                          |             | 21   | 2.3 |  |  |  |
| 20                            | HQAM       | 50      | 50        | 19.97                     | 20.07                     | 19.92                      |                          |             |      |     |  |  |  |
| 20                            | HQAM       | 100     | 0         | 20.18                     | 20.32                     | 20.22                      |                          |             | 19   | 4.3 |  |  |  |
| 20                            | HQAM       | 1       | 49        | 17.73                     | 17.83                     | 17.76                      |                          |             |      |     |  |  |  |
| 20                            | HQAM       | 1       | 99        | 17.48                     | 17.57                     | 17.43                      |                          |             | 19   | 4.3 |  |  |  |
| 20                            | HQAM       | 50      | 0         | 17.56                     | 17.64                     | 17.58                      |                          |             |      |     |  |  |  |
| 20                            | HQAM       | 50      | 24        | 17.38                     | 17.52                     | 17.45                      |                          |             | 19   | 4.3 |  |  |  |
| 20                            | HQAM       | 50      | 50        | 17.48                     | 17.63                     | 17.58                      |                          |             |      |     |  |  |  |
| 20                            | HQAM       | 100     | 0         | 17.60                     | 17.65                     | 17.60                      |                          |             |      |     |  |  |  |
| Channel                       |            |         |           |                           |                           |                            |                          |             |      |     |  |  |  |
| Frequency (MHz)               |            |         |           |                           |                           |                            |                          |             |      |     |  |  |  |
| 15                            | QPSK       | 1       | 0         | 21.93                     | 22.14                     | 21.97                      |                          |             | 23.3 | 0   |  |  |  |
| 15                            | QPSK       | 1       | 49        | 21.84                     | 21.99                     | 21.87                      |                          |             |      |     |  |  |  |
| 15                            | QPSK       | 1       | 74        | 21.93                     | 21.88                     | 21.90                      |                          |             | 23   | 0.3 |  |  |  |
| 15                            | QPSK       | 36      | 0         | 21.88                     | 21.91                     | 21.78                      |                          |             |      |     |  |  |  |
| 15                            | QPSK       | 25      | 0         | 21.79                     | 21.85                     | 21.79                      |                          |             | 23   | 0.3 |  |  |  |
| 15                            | QPSK       | 36      | 36        | 21.65                     | 21.65                     | 21.61                      |                          |             |      |     |  |  |  |
| 15                            | QPSK       | 75      | 0         | 21.69                     | 21.69                     | 21.64                      |                          |             | 23   | 0.3 |  |  |  |
| 15                            | HQAM       | 1       | 0         | 21.97                     | 22.07                     | 22.02                      |                          |             |      |     |  |  |  |
| 15                            | HQAM       | 1       | 37        | 21.84                     | 21.92                     | 21.84                      |                          |             | 22   | 1.3 |  |  |  |
| 15                            | HQAM       | 1       | 49        | 21.95                     | 21.97                     | 21.94                      |                          |             |      |     |  |  |  |
| 15                            | HQAM       | 36      | 0         | 20.77                     | 20.91                     | 20.83                      |                          |             | 22   | 1.3 |  |  |  |
| 15                            | HQAM       | 36      | 20        | 20.70                     | 20.80                     | 20.79                      |                          |             |      |     |  |  |  |
| 15                            | HQAM       | 36      | 36        | 20.69                     | 20.80                     | 20.78                      |                          |             | 21   | 2.3 |  |  |  |
| 15                            | HQAM       | 75      | 0         | 20.73                     | 20.81                     | 20.68                      |                          |             |      |     |  |  |  |
| 15                            | HQAM       | 1       | 0         | 20.88                     | 21.01                     | 20.92                      |                          |             | 22   | 1.3 |  |  |  |
| 15                            | HQAM       | 1       | 37        | 20.72                     | 20.85                     | 20.78                      |                          |             |      |     |  |  |  |
| 15                            | HQAM       | 1       | 74        | 20.76                     | 20.85                     | 20.83                      |                          |             | 21   | 2.3 |  |  |  |
| 15                            | HQAM       | 36      | 0         | 19.81                     | 19.97                     | 19.81                      |                          |             |      |     |  |  |  |
| 15                            | HQAM       | 36      | 20        | 19.85                     | 19.99                     | 19.85                      |                          |             | 19   | 4.3 |  |  |  |
| 15                            | HQAM       | 36      | 36        | 19.80                     | 19.94                     | 19.82                      |                          |             |      |     |  |  |  |
| 15                            | HQAM       | 75      | 0         | 19.87                     | 20.04                     | 19.82                      |                          |             | 19   | 4.3 |  |  |  |
| 15                            | HQAM       | 1       | 37        | 17.58                     | 17.67                     | 17.61                      |                          |             |      |     |  |  |  |
| 15                            | HQAM       | 1       | 74        | 17.38                     | 17.47                     | 17.39                      |                          |             | 19   | 4.3 |  |  |  |
| 15                            | HQAM       | 36      | 0         | 17.44                     | 17.45                     | 17.43                      |                          |             |      |     |  |  |  |
| 15                            | HQAM       | 36      | 20        | 17.26                     | 17.43                     | 17.33                      |                          |             | 19   | 4.3 |  |  |  |
| 15                            | HQAM       | 36      | 36        | 17.49                     | 17.53                     | 17.48                      |                          |             |      |     |  |  |  |
| 15                            | HQAM       | 75      | 0         | 17.15                     | 17.42                     | 17.49                      |                          |             |      |     |  |  |  |
| Channel                       |            |         |           |                           |                           |                            |                          |             |      |     |  |  |  |
| Frequency (MHz)               |            |         |           |                           |                           |                            |                          |             |      |     |  |  |  |
| 10                            | QPSK       | 1       | 0         | 22.09                     | 22.12                     | 22.09                      |                          |             | 23.3 | 0   |  |  |  |
| 10                            | QPSK       | 1       | 25        | 21.81                     | 21.93                     | 21.88                      |                          |             |      |     |  |  |  |
| 10                            | QPSK       | 1       | 49        | 21.86                     | 21.96                     | 21.88                      |                          |             | 23   | 0.3 |  |  |  |
| 10                            | QPSK       | 25      | 0         | 21.89                     | 21.98                     | 21.89                      |                          |             |      |     |  |  |  |
| 10                            | QPSK       | 25      | 12        | 21.77                     | 21.83                     | 21.78                      |                          |             | 23   | 0.3 |  |  |  |
| 10                            | QPSK       | 25      | 25        | 21.59                     | 21.68                     | 21.68                      |                          |             |      |     |  |  |  |
| 10                            | QPSK       | 100     | 0         | 21.87                     | 22.00                     | 21.87                      |                          |             | 23   | 0.3 |  |  |  |
| 10                            | HQAM       | 1       | 0         | 22.09                     | 22.07                     | 22.03                      |                          |             |      |     |  |  |  |
| 10                            | HQAM       | 1       | 25        | 21.89                     | 21.91                     | 21.88                      |                          |             | 22   | 1.3 |  |  |  |
| 10                            | HQAM       | 1       | 49        | 21.88                     | 21.94                     | 21.87                      |                          |             |      |     |  |  |  |
| 10                            | HQAM       | 25      | 0         | 20.89                     | 20.97                     | 20.77                      |                          |             | 22   | 1.3 |  |  |  |
| 10                            | HQAM       | 25      | 12        | 20.67                     | 20.85                     | 20.79                      |                          |             |      |     |  |  |  |
| 10                            | HQAM       | 25      | 25        | 20.70                     | 20.80                     | 20.78                      |                          |             | 22   | 1.3 |  |  |  |
| 10                            | HQAM       | 50      | 0         | 20.71                     | 20.86                     | 20.72                      |                          |             |      |     |  |  |  |
| 10                            | HQAM       | 1       | 0         | 20.88                     | 20.94                     | 20.89                      |                          |             | 22   | 1.3 |  |  |  |
| 10                            | HQAM       | 1       | 25        | 20.74                     | 20.84                     | 20.74                      |                          |             |      |     |  |  |  |
| 10                            | HQAM       | 1       | 49        | 20.78                     | 20.88                     | 20.88                      |                          |             | 21   | 2.3 |  |  |  |
| 10                            | HQAM       | 25      | 0         | 19.89                     | 19.97                     | 19.90                      |                          |             |      |     |  |  |  |
| 10                            | HQAM       | 25      | 12        | 19.88                     | 19.98                     | 19.92                      |                          |             | 21   | 2.3 |  |  |  |
| 10                            | HQAM       | 25      | 25        | 19.81                     | 19.88                     | 19.79                      |                          |             |      |     |  |  |  |
| 10                            | HQAM       | 50      | 0         | 20.11                     | 20.22                     | 20.28                      |                          |             | 19   | 4.3 |  |  |  |
| 10                            | HQAM       | 1       | 25        | 17.65                     | 17.77                     | 17.62                      |                          |             |      |     |  |  |  |
| 10                            | HQAM       | 1       | 25        | 17.65                     | 17.73                     | 17.58                      |                          |             | 19   | 4.3 |  |  |  |
| 10                            | HQAM       | 1       | 49        | 17.42                     | 17.49                     | 17.33                      |                          |             |      |     |  |  |  |
| 10                            | HQAM       | 25      | 0         | 17.50                     | 17.51                     | 17.43                      |                          |             | 19   | 4.3 |  |  |  |
| 10                            | HQAM       | 25      | 12        | 17.29                     | 17.42                     | 17.36                      |                          |             |      |     |  |  |  |
| 10                            | HQAM       | 25      | 25        | 17.35                     | 17.49                     | 17.47                      |                          |             | 19   | 4.3 |  |  |  |
| 10                            | HQAM       | 50      | 0         | 17.58                     | 17.62                     | 17.49                      |                          |             |      |     |  |  |  |
| Channel                       |            |         |           |                           |                           |                            |                          |             |      |     |  |  |  |
| Frequency (MHz)               |            |         |           |                           |                           |                            |                          |             |      |     |  |  |  |
| 5                             | QPSK       | 1       | 0         | 21.87                     | 22.15                     | 21.87                      |                          |             | 23.3 | 0   |  |  |  |
| 5                             | QPSK       | 1       | 12        | 21.81                     | 21.92                     | 21.81                      |                          |             |      |     |  |  |  |
| 5                             | QPSK       | 1       | 24        | 21.91                     | 22.02                     | 21.90                      |                          |             | 23   | 0.3 |  |  |  |
| 5                             | QPSK       | 12      | 0         | 21.86                     | 21.98                     | 21.87                      |                          |             |      |     |  |  |  |
| 5                             | QPSK       | 12      | 7         | 21.80                     | 21.85                     | 21.75                      |                          |             | 23   | 0.3 |  |  |  |
| 5                             | QPSK       | 12      | 13        | 21.66                     | 21.64                     | 21.63                      |                          |             |      |     |  |  |  |
| 5                             | QPSK       | 36      | 0         | 21.53                     | 21.58                     | 21.58                      |                          |             | 23   | 0.3 |  |  |  |
| 5                             | HQAM       | 1       | 0         | 22.01                     | 22.03                     | 22.00                      |                          |             |      |     |  |  |  |
| 5                             | HQAM       | 1       | 12        | 21.90                     | 21.93                     | 21.88                      |                          |             | 23   | 0.3 |  |  |  |
| 5                             | HQAM       | 1       | 24        | 21.96                     | 21.96                     | 21.92                      |                          |             |      |     |  |  |  |
| 5                             | HQAM       | 12      | 0         | 20.82                     | 20.89                     | 20.77                      |                          |             | 22   | 1.3 |  |  |  |
| 5                             | HQAM       | 12      | 7         | 20.69                     | 20.80                     | 20.73                      |                          |             |      |     |  |  |  |
| 5                             | HQAM       | 12      | 14        | 20.69                     | 20.81                     | 20.68                      |                          |             | 22   | 1.3 |  |  |  |
| 5                             | HQAM       | 25      | 0         | 20.71                     | 20.81                     | 20.76                      |                          |             |      |     |  |  |  |
| 5                             | HQAM       | 1       | 0         | 20.30                     | 20.33                     | 20.36                      |                          |             | 22   | 1.3 |  |  |  |
| 5                             | HQAM       | 1       | 12        | 20.77                     | 20.87                     | 20.73                      |                          |             |      |     |  |  |  |
| 5                             | HQAM       | 1       | 24        | 20.80                     | 20.85                     | 20.85                      |                          |             | 21   | 2.3 |  |  |  |
| 5                             | HQAM       | 12      | 0         | 19.82                     | 19.92                     | 19.87                      |                          |             |      |     |  |  |  |
| 5                             | HQAM       | 12      | 7         | 19.83                     | 19.95                     | 19.85                      |                          |             | 21   | 2.3 |  |  |  |
| 5                             | HQAM       | 12      | 13        | 19.77                     | 19.89                     | 19.78                      |                          |             |      |     |  |  |  |
| 5                             | HQAM       | 25      | 0         | 20.12                     | 20.21                     | 20.13                      |                          |             | 19   | 4.3 |  |  |  |
| 5                             | HQAM       | 25      | 0         | 17.63                     | 17.68                     | 17.63                      |                          |             |      |     |  |  |  |
| 5                             | HQAM       | 25      | 12        | 17.62                     | 17.68                     | 17.58                      |                          |             | 19   | 4.3 |  |  |  |
| 5                             | HQAM       | 25      | 25        | 17.40                     | 17.44                     | 17.36                      |                          |             |      |     |  |  |  |
| 5                             | HQAM       | 50      | 0         | 17.55                     | 17.64                     | 17.49                      |                          |             |      |     |  |  |  |
| Channel                       |            |         |           |                           |                           |                            |                          |             |      |     |  |  |  |
| Frequency (MHz)               |            |         |           |                           |                           |                            |                          |             |      |     |  |  |  |
| 3                             | QPSK       | 1       | 0         | 21.68                     | 22.22                     | 22.05                      |                          |             | 23.3 | 0   |  |  |  |
| 3                             | QPSK       | 1       | 8         | 21.76                     | 21.97                     | 21.83                      |                          |             |      |     |  |  |  |
| 3                             | QPSK       | 1       | 14        | 21.92                     | 21.93                     | 21.92                      |                          |             | 23   | 0.3 |  |  |  |
| 3                             | QPSK       | 8       | 0         | 21.69                     | 21.84                     | 21.77                      |                          |             |      |     |  |  |  |
| 3                             | QPSK       | 8       | 4         | 21.61                     | 21.71                     | 21.68                      |                          |             | 23   | 0.3 |  |  |  |
| 3                             | QPSK       | 8       | 7         | 21.81                     | 21.71                     | 21.68                      |                          |             |      |     |  |  |  |
| 3                             | QPSK       | 16      | 0         | 21.53                     | 21.67                     | 21.56                      |                          |             | 23   | 0.3 |  |  |  |
| 3                             | HQAM       | 1       | 0         | 22.06                     | 22.00                     | 22.01                      |                          |             |      |     |  |  |  |
| 3                             | HQAM       | 1       | 8         | 21.83                     | 21.87                     | 21.86                      |                          |             | 22   | 1.3 |  |  |  |
| 3                             | HQAM       | 1       | 14        | 21.87                     | 21.91                     | 21.83                      |                          |             |      |     |  |  |  |
| 3                             | HQAM       | 8       | 0         | 21.69                     | 21.84                     | 21.77                      |                          |             | 22   | 1.3 |  |  |  |
| 3                             | HQAM       | 8       | 4         | 20.74                     | 20.89                     | 20.83                      |                          |             |      |     |  |  |  |
| 3                             | HQAM       | 8       | 7         | 20.69                     | 20.77                     | 20.66                      |                          |             | 22   | 1.3 |  |  |  |
| 3                             | HQAM       | 16      | 0         | 20.78                     | 20.78                     | 20.77                      |                          |             |      |     |  |  |  |
| 3                             | HQAM       | 1       | 0         | 20.91                     | 20.94                     | 20.88                      |                          |             | 21   | 2.3 |  |  |  |
| 3                             | HQAM       | 1       | 8         | 20.72                     | 20.82                     | 20.74                      |                          |             |      |     |  |  |  |
| 3                             | HQAM       | 8       | 0         | 19.82                     | 19.92                     | 19.87                      |                          |             | 19   | 4.3 |  |  |  |
| 3                             | HQAM       | 8       | 4         | 19.87                     | 19.92                     | 19.93                      |                          |             |      |     |  |  |  |
| 3                             | HQAM       | 8       | 7         | 19.72                     | 19.79                     | 19.76                      |                          |             | 21   | 2.3 |  |  |  |
| 3                             | HQAM       | 16      | 0         | 20.08                     | 20.25                     | 20.14                      |                          |             |      |     |  |  |  |
| 3                             | HQAM       | 1       | 0         | 17.68                     | 17.75                     | 17.69                      |                          |             | 19   | 4.3 |  |  |  |
| 3                             | HQAM       | 1       | 8         | 17.43                     | 17.49                     | 17.36                      |                          |             |      |     |  |  |  |
| 3                             | HQAM       | 1       | 14        | 17.43                     | 17.45                     | 17.36                      |                          |             | 19   | 4.3 |  |  |  |
| 3                             | HQAM       | 8       | 0         | 17.50                     | 17.51                     | 17.43                      |                          |             |      |     |  |  |  |
| 3                             | HQAM       | 8       | 4         | 17.25                     | 17.43                     | 17.29                      |                          |             |      |     |  |  |  |
| 3                             | HQAM       | 8       | 7         | 17.33                     | 17.67                     | 17.48                      |                          |             |      |     |  |  |  |
| 3                             | HQAM       | 16      | 0         | 17.66                     | 17.73                     | 17.66                      |                          |             |      |     |  |  |  |
| Channel                       |            |         |           |                           |                           |                            |                          |             |      |     |  |  |  |
| Frequency (MHz)               |            |         |           |                           |                           |                            |                          |             |      |     |  |  |  |
| 1.4                           | QPSK       | 1       | 0         | 21.93                     | 22.10                     | 22.06                      |                          |             | 23.3 | 0   |  |  |  |
| 1.4                           | QPSK       | 1       | 8         | 21.76                     | 21.98                     | 21.86                      |                          |             |      |     |  |  |  |
| 1.4                           | QPSK       | 1       | 16        | 21.88                     | 21.92                     | 21.97                      |                          |             | 23   | 0.3 |  |  |  |
| 1.4                           | QPSK       | 8       | 0         | 22.05                     | 22.05                     | 22.06                      |                          |             |      |     |  |  |  |
| 1.4                           | QPSK       | 8       | 4         | 21.81                     | 21.91                     | 21.91                      |                          |             | 23   | 0.3 |  |  |  |
| 1.4                           | QPSK       | 8       | 7         | 21.91                     | 21.92                     | 21.92                      |                          |             |      |     |  |  |  |
| 1.4                           | QPSK       | 16      | 0         | 21.92                     | 22.02                     | 21.92                      |                          |             | 22.9 | 0.4 |  |  |  |
| 1.4                           | HQAM       | 1       | 0         | 21.23                     | 21.41                     | 21.25                      |                          |             |      |     |  |  |  |
| 1.4                           | HQAM       | 1       | 3         | 21.98                     | 21.44                     | 21.02                      |                          |             | 22.9 | 0.4 |  |  |  |
| 1.4                           | HQAM       | 1       | 6         | 21.36                     | 21.11                     | 21.07                      |                          |             |      |     |  |  |  |
| 1.4                           | HQAM       | 3       | 0         | 21.18                     | 21.37                     | 21.23                      |                          |             | 22.9 | 0.4 |  |  |  |
| 1.4                           | HQAM       | 3       | 1         | 21.11                     | 21.38                     | 21.08                      |                          |             |      |     |  |  |  |
| 1.4                           | HQAM       | 6       | 0         | 20.10                     | 20.20                     | 20.20                      |                          |             | 21.9 | 1.4 |  |  |  |
| 1.4                           | HQAM       | 6       | 4         | 20.34                     | 20.55                     | 20.41                      |                          |             |      |     |  |  |  |
| 1.4                           | HQAM       | 6       | 8         | 20.35                     | 20.35                     | 20.27                      |                          |             | 21.9 | 1.4 |  |  |  |
| 1.4                           | HQAM       | 6       | 16        | 20.34                     | 20.39                     | 20.27                      |                          |             |      |     |  |  |  |
| 1.4                           | HQAM       | 3       | 0         | 20.36                     | 20.19                     | 20.23                      |                          |             | 21.9 | 1.4 |  |  |  |
| 1.4                           | HQAM       | 3       | 8         | 20.28                     | 20.40                     | 20.30                      |                          |             |      |     |  |  |  |
| 1.4                           | HQAM       | 3       | 16        | 20.28                     | 20.40                     | 20.30                      |                          |             | 21.9 | 1.4 |  |  |  |
| 1.4                           | HQAM       | 6       | 0         | 17.03                     | 17.21                     | 17.21                      |                          |             |      |     |  |  |  |

| Band 38 Ant1 DSI2 Simultaneous |            |         |           |                       |                          |                        |                     |          |  |
|--------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                       | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                        |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |  |
| Frequency (MHz)                |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20                             | QPSK       | 1       | 0         | 17.81                 | 17.85                    | 17.63                  | 18.8                | 0        |  |
| 20                             | QPSK       | 1       | 49        | 17.39                 | 17.62                    | 17.61                  |                     |          |  |
| 20                             | QPSK       | 1       | 99        | 17.72                 | 17.76                    | 17.57                  |                     |          |  |
| 20                             | QPSK       | 50      | 0         | 17.47                 | 17.73                    | 17.53                  | 18.8                | 0        |  |
| 20                             | QPSK       | 50      | 24        | 17.52                 | 17.45                    | 17.53                  |                     |          |  |
| 20                             | QPSK       | 50      | 50        | 17.56                 | 17.49                    | 17.44                  |                     |          |  |
| 20                             | QPSK       | 100     | 0         | 17.37                 | 17.61                    | 17.27                  | 18.8                | 0        |  |
| 20                             | 16QAM      | 1       | 0         | 17.45                 | 17.72                    | 17.86                  |                     |          |  |
| 20                             | 16QAM      | 1       | 49        | 17.77                 | 17.39                    | 17.76                  |                     |          |  |
| 20                             | 16QAM      | 1       | 99        | 17.45                 | 17.51                    | 17.43                  | 18.8                | 0        |  |
| 20                             | 16QAM      | 50      | 0         | 17.64                 | 17.51                    | 17.57                  |                     |          |  |
| 20                             | 16QAM      | 50      | 24        | 17.26                 | 17.41                    | 17.38                  |                     |          |  |
| 20                             | 16QAM      | 50      | 50        | 17.57                 | 17.73                    | 17.50                  | 18.8                | 0        |  |
| 20                             | 16QAM      | 100     | 0         | 17.41                 | 17.72                    | 17.37                  |                     |          |  |
| 20                             | 64QAM      | 1       | 0         | 17.56                 | 17.75                    | 17.67                  |                     |          |  |
| 20                             | 64QAM      | 1       | 49        | 17.37                 | 17.62                    | 17.56                  | 18.8                | 0        |  |
| 20                             | 64QAM      | 1       | 99        | 17.56                 | 17.52                    | 17.41                  |                     |          |  |
| 20                             | 64QAM      | 50      | 0         | 17.44                 | 17.53                    | 17.51                  |                     |          |  |
| 20                             | 64QAM      | 50      | 24        | 17.25                 | 17.20                    | 17.20                  | 18.8                | 0        |  |
| 20                             | 64QAM      | 50      | 50        | 17.45                 | 17.39                    | 17.29                  |                     |          |  |
| 20                             | 64QAM      | 100     | 0         | 17.15                 | 17.30                    | 17.33                  |                     |          |  |
| 20                             | 256QAM     | 1       | 0         | 17.08                 | 17.14                    | 17.16                  | 18.8                | 0        |  |
| 20                             | 256QAM     | 1       | 49        | 17.01                 | 17.12                    | 17.06                  |                     |          |  |
| 20                             | 256QAM     | 1       | 99        | 17.09                 | 17.15                    | 17.04                  |                     |          |  |
| 20                             | 256QAM     | 50      | 0         | 17.16                 | 17.26                    | 17.15                  | 18.8                | 0        |  |
| 20                             | 256QAM     | 50      | 24        | 17.08                 | 17.05                    | 17.07                  |                     |          |  |
| 20                             | 256QAM     | 50      | 50        | 17.12                 | 16.99                    | 17.08                  |                     |          |  |
| 20                             | 256QAM     | 100     | 0         | 17.18                 | 17.25                    | 17.14                  |                     |          |  |
| Channel                        |            |         |           | 37825                 | 38000                    | 38175                  |                     |          |  |
| Frequency (MHz)                |            |         |           | 2577.5                | 2595                     | 2612.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15                             | QPSK       | 1       | 0         | 17.70                 | 17.82                    | 17.55                  | 18.8                | 0        |  |
| 15                             | QPSK       | 1       | 37        | 17.51                 | 17.58                    | 17.51                  |                     |          |  |
| 15                             | QPSK       | 1       | 74        | 17.53                 | 17.60                    | 17.60                  |                     |          |  |
| 15                             | QPSK       | 36      | 0         | 17.42                 | 17.57                    | 17.42                  | 18.8                | 0        |  |
| 15                             | QPSK       | 36      | 20        | 17.41                 | 17.36                    | 17.39                  |                     |          |  |
| 15                             | QPSK       | 36      | 39        | 17.39                 | 17.29                    | 17.35                  |                     |          |  |
| 15                             | QPSK       | 75      | 0         | 17.30                 | 17.52                    | 17.22                  | 18.8                | 0        |  |
| 15                             | 16QAM      | 1       | 0         | 17.31                 | 17.52                    | 17.59                  |                     |          |  |
| 15                             | 16QAM      | 1       | 37        | 17.63                 | 17.32                    | 17.64                  |                     |          |  |
| 15                             | 16QAM      | 1       | 74        | 17.28                 | 17.30                    | 17.30                  | 18.8                | 0        |  |
| 15                             | 16QAM      | 36      | 0         | 17.62                 | 17.41                    | 17.38                  |                     |          |  |
| 15                             | 16QAM      | 36      | 20        | 17.22                 | 17.33                    | 17.33                  |                     |          |  |
| 15                             | 16QAM      | 36      | 39        | 17.47                 | 17.62                    | 17.42                  | 18.8                | 0        |  |
| 15                             | 16QAM      | 75      | 0         | 17.42                 | 17.62                    | 17.35                  |                     |          |  |
| 15                             | 64QAM      | 1       | 0         | 17.45                 | 17.52                    | 17.71                  |                     |          |  |
| 15                             | 64QAM      | 1       | 37        | 17.25                 | 17.51                    | 17.53                  | 18.8                | 0        |  |
| 15                             | 64QAM      | 1       | 74        | 17.54                 | 17.38                    | 17.40                  |                     |          |  |
| 15                             | 64QAM      | 36      | 0         | 17.30                 | 17.39                    | 17.47                  |                     |          |  |
| 15                             | 64QAM      | 36      | 20        | 17.20                 | 17.22                    | 17.17                  | 18.8                | 0        |  |
| 15                             | 64QAM      | 36      | 39        | 17.30                 | 17.32                    | 17.17                  |                     |          |  |
| 15                             | 64QAM      | 75      | 0         | 17.15                 | 17.14                    | 17.22                  |                     |          |  |
| 15                             | 256QAM     | 1       | 0         | 16.99                 | 17.13                    | 17.04                  | 18.8                | 0        |  |
| 15                             | 256QAM     | 1       | 37        | 16.93                 | 17.08                    | 16.98                  |                     |          |  |
| 15                             | 256QAM     | 1       | 74        | 16.94                 | 17.06                    | 16.90                  |                     |          |  |
| 15                             | 256QAM     | 36      | 0         | 17.02                 | 17.16                    | 17.04                  | 18.8                | 0        |  |
| 15                             | 256QAM     | 36      | 20        | 16.95                 | 16.98                    | 16.92                  |                     |          |  |
| 15                             | 256QAM     | 36      | 39        | 16.97                 | 16.94                    | 16.94                  |                     |          |  |
| 15                             | 256QAM     | 75      | 0         | 17.00                 | 17.08                    | 17.06                  |                     |          |  |
| Channel                        |            |         |           | 37800                 | 38000                    | 38200                  |                     |          |  |
| Frequency (MHz)                |            |         |           | 2575                  | 2595                     | 2615                   | Tune-up limit (dBm) | MPR (dB) |  |
| 10                             | QPSK       | 1       | 0         | 17.71                 | 17.79                    | 17.50                  | 18.8                | 0        |  |
| 10                             | QPSK       | 1       | 25        | 17.33                 | 17.58                    | 17.50                  |                     |          |  |
| 10                             | QPSK       | 1       | 49        | 17.53                 | 17.57                    | 17.53                  |                     |          |  |
| 10                             | QPSK       | 25      | 0         | 17.32                 | 17.53                    | 17.49                  | 18.8                | 0        |  |
| 10                             | QPSK       | 25      | 12        | 17.39                 | 17.35                    | 17.40                  |                     |          |  |
| 10                             | QPSK       | 25      | 25        | 17.43                 | 17.35                    | 17.33                  |                     |          |  |
| 10                             | QPSK       | 50      | 0         | 17.24                 | 17.49                    | 17.15                  | 18.8                | 0        |  |
| 10                             | 16QAM      | 1       | 0         | 17.33                 | 17.54                    | 17.63                  |                     |          |  |
| 10                             | 16QAM      | 1       | 25        | 17.65                 | 17.31                    | 17.58                  |                     |          |  |
| 10                             | 16QAM      | 1       | 49        | 17.33                 | 17.30                    | 17.32                  | 18.8                | 0        |  |
| 10                             | 16QAM      | 25      | 0         | 17.66                 | 17.33                    | 17.45                  |                     |          |  |
| 10                             | 16QAM      | 25      | 12        | 17.21                 | 17.34                    | 17.34                  |                     |          |  |
| 10                             | 16QAM      | 25      | 25        | 17.45                 | 17.54                    | 17.37                  | 18.8                | 0        |  |
| 10                             | 16QAM      | 50      | 0         | 17.36                 | 17.66                    | 17.36                  |                     |          |  |
| 10                             | 64QAM      | 1       | 0         | 17.45                 | 17.61                    | 17.60                  |                     |          |  |
| 10                             | 64QAM      | 1       | 25        | 17.33                 | 17.51                    | 17.49                  | 18.8                | 0        |  |
| 10                             | 64QAM      | 1       | 49        | 17.50                 | 17.42                    | 17.37                  |                     |          |  |
| 10                             | 64QAM      | 25      | 0         | 17.31                 | 17.41                    | 17.48                  |                     |          |  |
| 10                             | 64QAM      | 25      | 12        | 17.20                 | 17.16                    | 17.13                  | 18.8                | 0        |  |
| 10                             | 64QAM      | 25      | 25        | 17.38                 | 17.23                    | 17.19                  |                     |          |  |
| 10                             | 64QAM      | 50      | 0         | 17.16                 | 17.19                    | 17.20                  |                     |          |  |
| 10                             | 256QAM     | 1       | 0         | 17.00                 | 17.10                    | 17.01                  | 18.8                | 0        |  |
| 10                             | 256QAM     | 1       | 25        | 16.94                 | 17.08                    | 16.95                  |                     |          |  |
| 10                             | 256QAM     | 1       | 49        | 17.05                 | 17.07                    | 16.93                  |                     |          |  |
| 10                             | 256QAM     | 25      | 0         | 17.06                 | 17.18                    | 17.14                  | 18.8                | 0        |  |
| 10                             | 256QAM     | 25      | 12        | 16.95                 | 17.00                    | 16.81                  |                     |          |  |
| 10                             | 256QAM     | 25      | 25        | 17.03                 | 16.94                    | 16.95                  |                     |          |  |
| 10                             | 256QAM     | 50      | 0         | 17.04                 | 17.11                    | 17.11                  |                     |          |  |
| Channel                        |            |         |           | 37775                 | 38000                    | 38225                  |                     |          |  |
| Frequency (MHz)                |            |         |           | 2572.5                | 2595                     | 2617.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| 5                              | QPSK       | 1       | 0         | 17.70                 | 17.72                    | 17.55                  | 18.8                | 0        |  |
| 5                              | QPSK       | 1       | 12        | 17.39                 | 17.57                    | 17.41                  |                     |          |  |
| 5                              | QPSK       | 1       | 24        | 17.63                 | 17.58                    | 17.58                  |                     |          |  |
| 5                              | QPSK       | 12      | 0         | 17.32                 | 17.53                    | 17.37                  | 18.8                | 0        |  |
| 5                              | QPSK       | 12      | 7         | 17.41                 | 17.33                    | 17.39                  |                     |          |  |
| 5                              | QPSK       | 12      | 13        | 17.45                 | 17.27                    | 17.34                  |                     |          |  |
| 5                              | QPSK       | 25      | 0         | 17.24                 | 17.48                    | 17.21                  | 18.8                | 0        |  |
| 5                              | 16QAM      | 1       | 0         | 17.32                 | 17.56                    | 17.62                  |                     |          |  |
| 5                              | 16QAM      | 1       | 12        | 17.68                 | 17.29                    | 17.56                  |                     |          |  |
| 5                              | 16QAM      | 1       | 24        | 17.24                 | 17.35                    | 17.30                  | 18.8                | 0        |  |
| 5                              | 16QAM      | 12      | 0         | 17.66                 | 17.36                    | 17.47                  |                     |          |  |
| 5                              | 16QAM      | 12      | 7         | 17.25                 | 17.32                    | 17.38                  |                     |          |  |
| 5                              | 16QAM      | 12      | 13        | 17.50                 | 17.53                    | 17.46                  | 18.8                | 0        |  |
| 5                              | 16QAM      | 25      | 0         | 17.43                 | 17.59                    | 17.35                  |                     |          |  |
| 5                              | 64QAM      | 1       | 0         | 17.44                 | 17.62                    | 17.66                  |                     |          |  |
| 5                              | 64QAM      | 1       | 12        | 17.32                 | 17.52                    | 17.45                  | 18.8                | 0        |  |
| 5                              | 64QAM      | 1       | 24        | 17.49                 | 17.48                    | 17.42                  |                     |          |  |
| 5                              | 64QAM      | 12      | 0         | 17.24                 | 17.31                    | 17.46                  |                     |          |  |
| 5                              | 64QAM      | 12      | 7         | 17.26                 | 17.21                    | 17.10                  | 18.8                | 0        |  |
| 5                              | 64QAM      | 12      | 13        | 17.29                 | 17.32                    | 17.18                  |                     |          |  |
| 5                              | 64QAM      | 25      | 0         | 17.13                 | 17.18                    | 17.22                  |                     |          |  |
| 5                              | 256QAM     | 1       | 0         | 17.00                 | 17.04                    | 16.97                  | 18.8                | 0        |  |
| 5                              | 256QAM     | 1       | 12        | 17.00                 | 17.06                    | 16.97                  |                     |          |  |
| 5                              | 256QAM     | 1       | 24        | 16.96                 | 17.06                    | 16.92                  |                     |          |  |
| 5                              | 256QAM     | 12      | 0         | 17.01                 | 17.12                    | 17.14                  | 18.8                | 0        |  |
| 5                              | 256QAM     | 12      | 7         | 16.95                 | 17.00                    | 16.83                  |                     |          |  |
| 5                              | 256QAM     | 12      | 13        | 17.06                 | 16.94                    | 17.01                  |                     |          |  |
| 5                              | 256QAM     | 25      | 0         | 17.10                 | 17.08                    | 17.05                  |                     |          |  |

| Band 41 Ant1 DSI2 Simultaneous |            |         |           |                       |                              |                          |                               |                        |                     |          |
|--------------------------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| 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. |                     |          |
| Channel                        |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20                             | QPSK       | 1       | 0         | 17.83                 | 17.91                        | 17.94                    | 17.75                         | 17.72                  | 18.8                | 0        |
| 20                             | QPSK       | 1       | 49        | 17.62                 | 17.54                        | 17.77                    | 17.70                         | 17.60                  |                     |          |
| 20                             | QPSK       | 1       | 99        | 17.75                 | 17.77                        | 17.84                    | 17.71                         | 17.85                  |                     |          |
| 20                             | QPSK       | 50      | 0         | 17.82                 | 17.61                        | 17.83                    | 17.59                         | 17.66                  |                     |          |
| 20                             | QPSK       | 50      | 24        | 17.59                 | 17.64                        | 17.58                    | 17.60                         | 17.50                  | 18.8                | 0        |
| 20                             | QPSK       | 50      | 50        | 17.68                 | 17.63                        | 17.57                    | 17.52                         | 17.62                  |                     |          |
| 20                             | QPSK       | 100     | 0         | 17.34                 | 17.44                        | 17.73                    | 17.38                         | 17.65                  |                     |          |
| 20                             | 16QAM      | 1       | 0         | 17.56                 | 17.54                        | 17.81                    | 17.90                         | 17.89                  |                     |          |
| 20                             | 16QAM      | 1       | 49        | 17.55                 | 17.84                        | 17.55                    | 17.84                         | 17.61                  | 18.8                | 0        |
| 20                             | 16QAM      | 1       | 99        | 17.78                 | 17.53                        | 17.59                    | 17.53                         | 17.77                  |                     |          |
| 20                             | 16QAM      | 50      | 0         | 17.58                 | 17.78                        | 17.62                    | 17.68                         | 17.63                  |                     |          |
| 20                             | 16QAM      | 50      | 24        | 17.64                 | 17.40                        | 17.56                    | 17.51                         | 17.53                  |                     |          |
| 20                             | 16QAM      | 50      | 50        | 17.51                 | 17.65                        | 17.80                    | 17.62                         | 17.64                  | 18.8                | 0        |
| 20                             | 16QAM      | 100     | 0         | 17.51                 | 17.55                        | 17.84                    | 17.52                         | 17.66                  |                     |          |
| 20                             | 64QAM      | 1       | 0         | 17.64                 | 17.66                        | 17.82                    | 17.81                         | 17.77                  |                     |          |
| 20                             | 64QAM      | 1       | 49        | 17.42                 | 17.44                        | 17.70                    | 17.64                         | 17.60                  |                     |          |
| 20                             | 64QAM      | 1       | 99        | 17.66                 | 17.67                        | 17.58                    | 17.55                         | 17.57                  | 18.8                | 0        |
| 20                             | 64QAM      | 50      | 0         | 17.56                 | 17.48                        | 17.60                    | 17.63                         | 17.78                  |                     |          |
| 20                             | 64QAM      | 50      | 24        | 17.56                 | 17.40                        | 17.35                    | 17.35                         | 17.52                  |                     |          |
| 20                             | 64QAM      | 50      | 50        | 17.45                 | 17.52                        | 17.44                    | 17.34                         | 17.35                  |                     |          |
| 20                             | 64QAM      | 100     | 0         | 17.33                 | 17.28                        | 17.38                    | 17.39                         | 17.62                  | 18.8                | 0        |
| 20                             | 256QAM     | 1       | 0         | 17.19                 | 17.22                        | 17.30                    | 17.22                         | 17.22                  |                     |          |
| 20                             | 256QAM     | 1       | 49        | 17.05                 | 17.14                        | 17.21                    | 17.18                         | 17.10                  |                     |          |
| 20                             | 256QAM     | 1       | 99        | 17.06                 | 17.14                        | 17.20                    | 17.10                         | 17.12                  |                     |          |
| 20                             | 256QAM     | 50      | 0         | 17.12                 | 17.28                        | 17.32                    | 17.25                         | 17.21                  | 18.8                | 0        |
| 20                             | 256QAM     | 50      | 24        | 17.13                 | 17.16                        | 17.18                    | 17.12                         | 17.15                  |                     |          |
| 20                             | 256QAM     | 50      | 50        | 17.10                 | 17.16                        | 17.13                    | 17.14                         | 17.16                  |                     |          |
| 20                             | 256QAM     | 100     | 0         | 17.13                 | 17.25                        | 17.33                    | 17.24                         | 17.23                  |                     |          |
| Channel                        |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |          |
| 15                             | QPSK       | 1       | 0         | 17.40                 | 17.72                        | 17.84                    | 17.75                         | 17.49                  | 18.80               | 0        |
| 15                             | QPSK       | 1       | 37        | 17.49                 | 17.52                        | 17.62                    | 17.63                         | 17.54                  |                     |          |
| 15                             | QPSK       | 1       | 74        | 17.56                 | 17.63                        | 17.56                    | 17.72                         | 17.64                  |                     |          |
| 15                             | QPSK       | 36      | 0         | 17.77                 | 17.59                        | 17.41                    | 17.33                         | 17.47                  |                     |          |
| 15                             | QPSK       | 36      | 20        | 17.47                 | 17.70                        | 17.52                    | 17.51                         | 17.55                  | 18.8                | 0        |
| 15                             | QPSK       | 36      | 39        | 17.48                 | 17.69                        | 17.63                    | 17.41                         | 17.62                  |                     |          |
| 15                             | QPSK       | 75      | 0         | 17.33                 | 17.36                        | 17.80                    | 17.40                         | 17.70                  |                     |          |
| 15                             | 16QAM      | 1       | 0         | 17.42                 | 17.48                        | 17.57                    | 17.81                         | 17.66                  |                     |          |
| 15                             | 16QAM      | 1       | 37        | 17.46                 | 17.60                        | 17.34                    | 17.56                         | 17.45                  | 18.8                | 0        |
| 15                             | 16QAM      | 1       | 74        | 17.60                 | 17.33                        | 17.35                    | 17.46                         | 17.82                  |                     |          |
| 15                             | 16QAM      | 36      | 0         | 17.55                 | 17.74                        | 17.33                    | 17.71                         | 17.57                  |                     |          |
| 15                             | 16QAM      | 36      | 20        | 17.60                 | 17.38                        | 17.40                    | 17.29                         | 17.28                  |                     |          |
| 15                             | 16QAM      | 36      | 39        | 17.37                 | 17.62                        | 17.70                    | 17.36                         | 17.66                  | 18.8                | 0        |
| 15                             | 16QAM      | 75      | 0         | 17.38                 | 17.56                        | 17.63                    | 17.40                         | 17.52                  |                     |          |
| 15                             | 64QAM      | 1       | 0         | 17.54                 | 17.48                        | 17.88                    | 17.59                         | 17.58                  |                     |          |
| 15                             | 64QAM      | 1       | 37        | 17.44                 | 17.48                        | 17.54                    | 17.60                         | 17.63                  |                     |          |
| 15                             | 64QAM      | 1       | 74        | 17.44                 | 17.51                        | 17.40                    | 17.42                         | 17.41                  | 18.8                | 0        |
| 15                             | 64QAM      | 36      | 0         | 17.48                 | 17.49                        | 17.65                    | 17.63                         | 17.66                  |                     |          |
| 15                             | 64QAM      | 36      | 20        | 17.46                 | 17.41                        | 17.40                    | 17.46                         | 17.43                  |                     |          |
| 15                             | 64QAM      | 36      | 39        | 17.47                 | 17.59                        | 17.49                    | 17.29                         | 17.23                  |                     |          |
| 15                             | 64QAM      | 75      | 0         | 17.34                 | 17.20                        | 17.23                    | 17.14                         | 17.69                  | 18.8                | 0        |
| 15                             | 256QAM     | 1       | 0         | 17.10                 | 17.10                        | 17.18                    | 17.08                         | 17.05                  |                     |          |
| 15                             | 256QAM     | 1       | 37        | 17.11                 | 17.00                        | 17.12                    | 17.08                         | 17.06                  |                     |          |
| 15                             | 256QAM     | 1       | 74        | 17.05                 | 17.01                        | 17.06                    | 17.03                         | 17.00                  |                     |          |
| 15                             | 256QAM     | 36      | 0         | 17.00                 | 17.14                        | 17.18                    | 17.10                         | 17.14                  | 18.8                | 0        |
| 15                             | 256QAM     | 36      | 20        | 17.00                 | 17.04                        | 17.07                    | 17.12                         | 17.05                  |                     |          |
| 15                             | 256QAM     | 36      | 39        | 17.02                 | 17.01                        | 17.08                    | 17.00                         | 17.02                  |                     |          |
| 15                             | 256QAM     | 75      | 0         | 17.06                 | 17.12                        | 17.22                    | 17.10                         | 17.12                  |                     |          |
| Channel                        |            |         |           | 39700                 | 40160                        | 40620                    | 41080                         | 41540                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 2501                  | 2547                         | 2593                     | 2639                          | 2685                   |                     |          |
| 10                             | QPSK       | 1       | 0         | 17.74                 | 17.72                        | 17.69                    | 17.52                         | 17.48                  | 18.80               | 0        |
| 10                             | QPSK       | 1       | 25        | 17.44                 | 17.33                        | 17.82                    | 17.70                         | 17.58                  |                     |          |
| 10                             | QPSK       | 1       | 49        | 17.56                 | 17.51                        | 17.78                    | 17.73                         | 17.83                  |                     |          |
| 10                             | QPSK       | 25      | 0         | 17.75                 | 17.34                        | 17.40                    | 17.60                         | 17.39                  |                     |          |
| 10                             | QPSK       | 25      | 12        | 17.48                 | 17.70                        | 17.46                    | 17.55                         | 17.54                  | 18.8                | 0        |
| 10                             | QPSK       | 25      | 25        | 17.76                 | 17.67                        | 17.59                    | 17.38                         | 17.35                  |                     |          |
| 10                             | QPSK       | 50      | 0         | 17.15                 | 17.25                        | 17.60                    | 17.32                         | 17.46                  |                     |          |
| 10                             | 16QAM      | 1       | 0         | 17.64                 | 17.48                        | 17.58                    | 17.93                         | 17.93                  |                     |          |
| 10                             | 16QAM      | 1       | 25        | 17.51                 | 17.91                        | 17.52                    | 17.64                         | 17.65                  | 18.8                | 0        |
| 10                             | 16QAM      | 1       | 49        | 17.56                 | 17.51                        | 17.56                    | 17.57                         | 17.52                  |                     |          |
| 10                             | 16QAM      | 25      | 0         | 17.67                 | 17.69                        | 17.68                    | 17.45                         | 17.50                  |                     |          |
| 10                             | 16QAM      | 25      | 12        | 17.43                 | 17.44                        | 17.33                    | 17.35                         | 17.26                  |                     |          |
| 10                             | 16QAM      | 25      | 25        | 17.39                 | 17.70                        | 17.70                    | 17.42                         | 17.59                  | 18.8                | 0        |
| 10                             | 16QAM      | 50      | 0         | 17.45                 | 17.52                        | 17.71                    | 17.25                         | 17.50                  |                     |          |
| 10                             | 64QAM      | 1       | 0         | 17.44                 | 17.67                        | 17.72                    | 17.69                         | 17.49                  |                     |          |
| 10                             | 64QAM      | 1       | 25        | 17.56                 | 17.53                        | 17.52                    | 17.66                         | 17.64                  |                     |          |
| 10                             | 64QAM      | 1       | 49        | 17.67                 | 17.65                        | 17.45                    | 17.26                         | 17.42                  | 18.8                | 0        |
| 10                             | 64QAM      | 25      | 0         | 17.47                 | 17.40                        | 17.58                    | 17.45                         | 17.81                  |                     |          |
| 10                             | 64QAM      | 25      | 12        | 17.55                 | 17.48                        | 17.59                    | 17.55                         | 17.48                  |                     |          |
| 10                             | 64QAM      | 25      | 25        | 17.56                 | 17.52                        | 17.50                    | 17.51                         | 17.52                  |                     |          |
| 10                             | 64QAM      | 50      | 0         | 17.39                 | 17.17                        | 17.17                    | 17.13                         | 17.34                  | 18.8                | 0        |
| 10                             | 256QAM     | 1       | 0         | 17.11                 | 17.07                        | 17.17                    | 17.16                         | 17.09                  |                     |          |
| 10                             | 256QAM     | 1       | 25        | 17.05                 | 17.03                        | 17.08                    | 17.07                         | 17.03                  |                     |          |
| 10                             | 256QAM     | 1       | 49        | 17.15                 | 17.05                        | 17.12                    | 17.07                         | 17.00                  |                     |          |
| 10                             | 256QAM     | 25      | 0         | 17.11                 | 17.20                        | 17.22                    | 17.16                         | 17.12                  | 18.8                | 0        |
| 10                             | 256QAM     | 25      | 12        | 17.07                 | 17.03                        | 17.08                    | 17.07                         | 17.05                  |                     |          |
| 10                             | 256QAM     | 25      | 25        | 17.02                 | 17.04                        | 17.05                    | 17.05                         | 17.02                  |                     |          |
| 10                             | 256QAM     | 50      | 0         | 17.02                 | 17.18                        | 17.27                    | 17.12                         | 17.14                  |                     |          |
| Channel                        |            |         |           | 39675                 | 40148                        | 40620                    | 41093                         | 41565                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 2498.5                | 2545.8                       | 2593                     | 2640.30                       | 2687.5                 |                     |          |
| 5                              | QPSK       | 1       | 0         | 17.49                 | 17.79                        | 17.55                    | 17.61                         | 17.62                  | 18.80               | 0        |
| 5                              | QPSK       | 1       | 12        | 17.56                 | 17.38                        | 17.84                    | 17.78                         | 17.45                  |                     |          |
| 5                              | QPSK       | 1       | 24        | 17.63                 | 17.51                        | 17.61                    | 17.63                         | 17.75                  |                     |          |
| 5                              | QPSK       | 12      | 0         | 17.69                 | 17.61                        | 17.55                    | 17.34                         | 17.44                  |                     |          |
| 5                              | QPSK       | 12      | 7         | 17.61                 | 17.61                        | 17.59                    | 17.57                         | 17.47                  | 18.8                | 0        |
| 5                              | QPSK       | 12      | 13        | 17.66                 | 17.59                        | 17.35                    | 17.56                         | 17.46                  |                     |          |
| 5                              | QPSK       | 25      | 0         | 17.38                 | 17.41                        | 17.81                    | 17.42                         | 17.54                  |                     |          |
| 5                              | 16QAM      | 1       | 0         | 17.53                 | 17.54                        | 17.55                    | 17.56                         | 17.76                  |                     |          |
| 5                              | 16QAM      | 1       | 12        | 17.55                 | 17.57                        | 17.58                    | 17.81                         | 17.56                  | 18.8                | 0        |
| 5                              | 16QAM      | 1       | 24        | 17.51                 | 17.49                        | 17.42                    | 17.54                         | 17.63                  |                     |          |
| 5                              | 16QAM      | 12      | 0         | 17.48                 | 17.69                        | 17.47                    | 17.51                         | 17.37                  |                     |          |
| 5                              | 16QAM      | 12      | 7         | 17.50                 | 17.23                        | 17.32                    | 17.28                         | 17.33                  |                     |          |
| 5                              | 16QAM      | 12      | 13        | 17.26                 | 17.46                        | 17.45                    | 17.57                         | 17.48                  | 18.8                | 0        |
| 5                              | 16QAM      | 25      | 0         | 17.53                 | 17.28                        | 17.65                    | 17.56                         | 17.47                  |                     |          |
| 5                              | 64QAM      | 1       | 0         | 17.53                 | 17.45                        | 17.66                    | 17.62                         | 17.64                  |                     |          |
| 5                              | 64QAM      | 1       | 12        | 17.46                 | 17.30                        | 17.49                    | 17.43                         | 17.37                  |                     |          |
| 5                              | 64QAM      | 1       | 24        | 17.39                 | 17.67                        | 17.30                    | 17.32                         | 17.33                  | 18.8                | 0        |
| 5                              | 64QAM      | 12      | 0         | 17.38                 | 17.46                        | 17.40                    | 17.39                         | 17.56                  |                     |          |
| 5                              | 64QAM      | 12      | 7         | 17.43                 | 17.33                        | 17.15                    | 17.22                         | 17.54                  |                     |          |
| 5                              | 64QAM      | 12      | 13        | 17.28                 | 17.38                        | 17.26                    | 17.16                         | 17.28                  |                     |          |
| 5                              | 64QAM      | 25      | 0         | 17.36                 | 17.36                        | 17.38                    | 17.28                         | 17.58                  | 18.8                | 0        |
| 5                              | 256QAM     | 1       | 0         | 17.07                 | 17.09                        | 17.24                    | 17.12                         | 17.07                  |                     |          |
| 5                              | 256QAM     | 1       | 12        | 17.04                 | 17.06                        | 17.11                    | 17.05                         | 17.01                  |                     |          |
| 5                              | 256QAM     | 1       | 24        | 17.08                 | 17.06                        | 17.15                    | 17.12                         | 17.04                  |                     |          |
| 5                              | 256QAM     | 12      | 0         | 17.04                 | 17.16                        | 17.19                    | 17.16                         | 17.14                  | 18.8                | 0        |
| 5                              | 256QAM     | 12      | 7         | 17.06                 | 17.03                        | 17.09                    | 17.05                         | 17.05                  |                     |          |
| 5                              | 256QAM     | 12      | 13        | 17.13                 | 17.10                        | 17.00                    | 17.09                         | 17.05                  |                     |          |
| 5                              | 256QAM     | 25      | 0         | 17.01                 | 17.10                        | 17.19                    | 17.16                         | 17.17                  |                     |          |

**Band 42 Part 27Q Ant2 DSI2 Simultaneous**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 42190                 | 42590                    | 42990                  |                     |          |
| Frequency (MHz) |            |         |           | 3460                  | 3500                     | 3540                   |                     |          |
| 20              | QPSK       | 1       | 0         | 18.21                 | 18.30                    | 17.90                  | 19.6                | 0        |
| 20              | QPSK       | 1       | 49        | 17.98                 | 18.28                    | 17.98                  |                     |          |
| 20              | QPSK       | 1       | 99        | 18.11                 | 18.21                    | 18.04                  |                     |          |
| 20              | QPSK       | 50      | 0         | 18.07                 | 18.21                    | 17.80                  | 19.6                | 0        |
| 20              | QPSK       | 50      | 24        | 17.88                 | 18.20                    | 17.82                  |                     |          |
| 20              | QPSK       | 50      | 50        | 17.97                 | 18.14                    | 17.97                  |                     |          |
| 20              | QPSK       | 100     | 0         | 17.99                 | 18.17                    | 17.95                  | 19.6                | 0        |
| 20              | 16QAM      | 1       | 0         | 18.05                 | 18.22                    | 17.79                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 17.90                 | 18.21                    | 17.76                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 17.99                 | 18.14                    | 17.86                  | 19.6                | 0        |
| 20              | 16QAM      | 50      | 0         | 18.00                 | 18.09                    | 17.75                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 17.86                 | 18.19                    | 17.82                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 18.01                 | 18.04                    | 17.96                  | 19.6                | 0        |
| 20              | 16QAM      | 100     | 0         | 17.92                 | 18.17                    | 17.94                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 18.08                 | 18.17                    | 17.79                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 17.81                 | 18.20                    | 17.75                  | 19.6                | 0        |
| 20              | 64QAM      | 1       | 99        | 17.88                 | 18.12                    | 17.93                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 18.05                 | 18.09                    | 18.21                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 17.98                 | 18.04                    | 18.09                  | 19.6                | 0        |
| 20              | 64QAM      | 50      | 50        | 17.98                 | 17.95                    | 17.85                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 18.00                 | 18.00                    | 18.06                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 17.50                 | 17.71                    | 17.36                  | 19                  | 0.6      |
| 20              | 256QAM     | 1       | 49        | 17.37                 | 17.65                    | 17.37                  |                     |          |
| 20              | 256QAM     | 1       | 99        | 17.43                 | 17.63                    | 17.41                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 17.59                 | 17.69                    | 17.37                  | 19                  | 0.6      |
| 20              | 256QAM     | 50      | 24        | 17.40                 | 17.64                    | 17.32                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 17.38                 | 17.64                    | 17.40                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 17.51                 | 17.70                    | 17.35                  |                     |          |
| Channel         |            |         |           | 42165                 | 42590                    | 43015                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3500                     | 3542.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 18.09                 | 18.15                    | 17.85                  | 19.6                | 0        |
| 15              | QPSK       | 1       | 37        | 17.91                 | 18.19                    | 17.91                  |                     |          |
| 15              | QPSK       | 1       | 74        | 17.98                 | 18.10                    | 17.92                  |                     |          |
| 15              | QPSK       | 36      | 0         | 17.95                 | 18.09                    | 17.66                  | 19.6                | 0        |
| 15              | QPSK       | 36      | 20        | 17.75                 | 18.15                    | 17.70                  |                     |          |
| 15              | QPSK       | 36      | 39        | 17.83                 | 18.06                    | 17.90                  |                     |          |
| 15              | QPSK       | 75      | 0         | 17.85                 | 18.12                    | 17.81                  | 19.6                | 0        |
| 15              | 16QAM      | 1       | 0         | 17.97                 | 18.11                    | 17.73                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 17.82                 | 18.13                    | 17.65                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 17.91                 | 18.09                    | 17.77                  | 19.6                | 0        |
| 15              | 16QAM      | 36      | 0         | 17.88                 | 18.03                    | 17.67                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 17.77                 | 18.04                    | 17.74                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 17.88                 | 17.94                    | 17.89                  | 19.6                | 0        |
| 15              | 16QAM      | 75      | 0         | 17.81                 | 18.11                    | 17.86                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 17.96                 | 18.04                    | 17.73                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 17.70                 | 18.07                    | 17.65                  | 19.6                | 0        |
| 15              | 64QAM      | 1       | 74        | 17.74                 | 18.02                    | 17.83                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 17.94                 | 18.02                    | 18.11                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 17.91                 | 17.90                    | 18.03                  | 19.6                | 0        |
| 15              | 64QAM      | 36      | 39        | 17.91                 | 17.82                    | 17.74                  |                     |          |
| 15              | 64QAM      | 75      | 0         | 17.86                 | 17.94                    | 17.95                  |                     |          |
| 15              | 256QAM     | 1       | 0         | 17.37                 | 17.61                    | 17.23                  | 19                  | 0.6      |
| 15              | 256QAM     | 1       | 37        | 17.29                 | 17.50                    | 17.23                  |                     |          |
| 15              | 256QAM     | 1       | 74        | 17.34                 | 17.52                    | 17.28                  |                     |          |
| 15              | 256QAM     | 36      | 0         | 17.48                 | 17.60                    | 17.27                  | 19                  | 0.6      |
| 15              | 256QAM     | 36      | 20        | 17.31                 | 17.56                    | 17.26                  |                     |          |
| 15              | 256QAM     | 36      | 39        | 17.25                 | 17.52                    | 17.35                  |                     |          |
| 15              | 256QAM     | 75      | 0         | 17.40                 | 17.58                    | 17.28                  |                     |          |
| Channel         |            |         |           | 42140                 | 42590                    | 43040                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455                  | 3500                     | 3545                   |                     |          |
| 10              | QPSK       | 1       | 0         | 18.15                 | 18.19                    | 17.78                  | 19.6                | 0        |
| 10              | QPSK       | 1       | 25        | 17.91                 | 18.17                    | 17.91                  |                     |          |
| 10              | QPSK       | 1       | 49        | 18.00                 | 18.13                    | 17.98                  |                     |          |
| 10              | QPSK       | 25      | 0         | 18.00                 | 18.09                    | 17.67                  | 19.6                | 0        |
| 10              | QPSK       | 25      | 12        | 17.83                 | 18.15                    | 17.68                  |                     |          |
| 10              | QPSK       | 25      | 25        | 17.87                 | 17.99                    | 17.83                  |                     |          |
| 10              | QPSK       | 50      | 0         | 17.88                 | 18.07                    | 17.88                  | 19.6                | 0        |
| 10              | 16QAM      | 1       | 0         | 17.98                 | 18.11                    | 17.64                  |                     |          |
| 10              | 16QAM      | 1       | 25        | 17.78                 | 18.09                    | 17.68                  |                     |          |
| 10              | 16QAM      | 1       | 49        | 17.85                 | 18.05                    | 17.73                  | 19.6                | 0        |
| 10              | 16QAM      | 25      | 0         | 17.86                 | 17.96                    | 17.62                  |                     |          |
| 10              | 16QAM      | 25      | 12        | 17.71                 | 18.08                    | 17.75                  |                     |          |
| 10              | 16QAM      | 25      | 25        | 17.91                 | 17.92                    | 17.82                  | 19.6                | 0        |
| 10              | 16QAM      | 50      | 0         | 17.80                 | 18.07                    | 17.89                  |                     |          |
| 10              | 64QAM      | 1       | 0         | 17.97                 | 18.04                    | 17.66                  |                     |          |
| 10              | 64QAM      | 1       | 25        | 17.66                 | 18.07                    | 17.66                  | 19.6                | 0        |
| 10              | 64QAM      | 1       | 49        | 17.78                 | 17.97                    | 17.82                  |                     |          |
| 10              | 64QAM      | 25      | 0         | 17.93                 | 17.94                    | 18.11                  |                     |          |
| 10              | 64QAM      | 25      | 12        | 17.89                 | 17.95                    | 18.01                  | 19.6                | 0        |
| 10              | 64QAM      | 25      | 25        | 17.89                 | 17.84                    | 17.73                  |                     |          |
| 10              | 64QAM      | 50      | 0         | 17.94                 | 17.87                    | 18.00                  |                     |          |
| 10              | 256QAM     | 1       | 0         | 17.45                 | 17.57                    | 17.30                  | 19                  | 0.6      |
| 10              | 256QAM     | 1       | 25        | 17.28                 | 17.56                    | 17.23                  |                     |          |
| 10              | 256QAM     | 1       | 49        | 17.29                 | 17.57                    | 17.30                  |                     |          |
| 10              | 256QAM     | 25      | 0         | 17.53                 | 17.63                    | 17.26                  | 19                  | 0.6      |
| 10              | 256QAM     | 25      | 12        | 17.28                 | 17.57                    | 17.26                  |                     |          |
| 10              | 256QAM     | 25      | 25        | 17.28                 | 17.49                    | 17.26                  |                     |          |
| 10              | 256QAM     | 50      | 0         | 17.41                 | 17.62                    | 17.22                  |                     |          |
| Channel         |            |         |           | 42115                 | 42590                    | 43065                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3492.5                | 3500                     | 3547.5                 |                     |          |
| 5               | QPSK       | 1       | 0         | 18.08                 | 18.24                    | 17.79                  | 19.6                | 0        |
| 5               | QPSK       | 1       | 12        | 17.85                 | 18.16                    | 17.89                  |                     |          |
| 5               | QPSK       | 1       | 24        | 17.99                 | 18.10                    | 17.93                  |                     |          |
| 5               | QPSK       | 12      | 0         | 17.99                 | 18.07                    | 17.74                  | 19.6                | 0        |
| 5               | QPSK       | 12      | 7         | 17.76                 | 18.14                    | 17.75                  |                     |          |
| 5               | QPSK       | 12      | 13        | 17.87                 | 18.07                    | 17.88                  |                     |          |
| 5               | QPSK       | 25      | 0         | 17.89                 | 18.11                    | 17.86                  | 19.6                | 0        |
| 5               | 16QAM      | 1       | 0         | 17.93                 | 18.12                    | 17.69                  |                     |          |
| 5               | 16QAM      | 1       | 12        | 17.85                 | 18.07                    | 17.65                  |                     |          |
| 5               | 16QAM      | 1       | 24        | 17.91                 | 18.04                    | 17.81                  | 19.6                | 0        |
| 5               | 16QAM      | 12      | 0         | 17.88                 | 17.98                    | 17.65                  |                     |          |
| 5               | 16QAM      | 12      | 7         | 17.73                 | 18.08                    | 17.71                  |                     |          |
| 5               | 16QAM      | 12      | 13        | 17.95                 | 17.90                    | 17.83                  | 19.6                | 0        |
| 5               | 16QAM      | 25      | 0         | 17.85                 | 18.03                    | 17.85                  |                     |          |
| 5               | 64QAM      | 1       | 0         | 17.99                 | 18.06                    | 17.67                  |                     |          |
| 5               | 64QAM      | 1       | 12        | 17.75                 | 18.08                    | 17.62                  | 19.6                | 0        |
| 5               | 64QAM      | 1       | 24        | 17.80                 | 18.05                    | 17.79                  |                     |          |
| 5               | 64QAM      | 12      | 0         | 17.91                 | 18.02                    | 18.06                  |                     |          |
| 5               | 64QAM      | 12      | 7         | 17.87                 | 17.97                    | 18.03                  | 19.6                | 0        |
| 5               | 64QAM      | 12      | 13        | 17.84                 | 17.89                    | 17.77                  |                     |          |
| 5               | 64QAM      | 25      | 0         | 17.94                 | 17.89                    | 17.95                  |                     |          |
| 5               | 256QAM     | 1       | 0         | 17.41                 | 17.60                    | 17.31                  | 19                  | 0.6      |
| 5               | 256QAM     | 1       | 12        | 17.31                 | 17.51                    | 17.28                  |                     |          |
| 5               | 256QAM     | 1       | 24        | 17.38                 | 17.55                    | 17.31                  |                     |          |
| 5               | 256QAM     | 12      | 0         | 17.49                 | 17.54                    | 17.24                  | 19                  | 0.6      |
| 5               | 256QAM     | 12      | 7         | 17.28                 | 17.49                    | 17.18                  |                     |          |
| 5               | 256QAM     | 12      | 13        | 17.27                 | 17.55                    | 17.31                  |                     |          |
| 5               | 256QAM     | 25      | 0         | 17.45                 | 17.59                    | 17.27                  |                     |          |

| Band 7 Ant5 DSI2 Simultaneous |            |         |           |                          |                             |                           |                           |             |  |  |  |  |
|-------------------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|--|--|--|--|
| 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) | MPR<br>(dB) |  |  |  |  |
| Channel                       |            |         |           | 20850                    | 21100                       | 21350                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |  |  |
| Frequency (MHz)               |            |         |           | 2510                     | 2535                        | 2560                      |                           |             |  |  |  |  |
| 20                            | QPSK       | 1       | 0         | 22.45                    | 22.72                       | 22.62                     | 24                        | 0           |  |  |  |  |
| 20                            | QPSK       | 1       | 49        | 22.31                    | 22.62                       | 22.53                     |                           |             |  |  |  |  |
| 20                            | QPSK       | 1       | 99        | 22.27                    | 22.58                       | 22.47                     |                           |             |  |  |  |  |
| 20                            | QPSK       | 50      | 0         | 21.67                    | 21.92                       | 21.62                     | 23                        | 1           |  |  |  |  |
| 20                            | QPSK       | 50      | 24        | 21.54                    | 21.78                       | 21.56                     |                           |             |  |  |  |  |
| 20                            | QPSK       | 50      | 50        | 21.59                    | 21.81                       | 21.53                     |                           |             |  |  |  |  |
| 20                            | QPSK       | 100     | 0         | 21.63                    | 21.82                       | 21.75                     | 23                        | 1           |  |  |  |  |
| 20                            | 16QAM      | 1       | 0         | 22.01                    | 22.27                       | 22.16                     |                           |             |  |  |  |  |
| 20                            | 16QAM      | 1       | 49        | 21.92                    | 22.13                       | 22.09                     |                           |             |  |  |  |  |
| 20                            | 16QAM      | 1       | 99        | 21.90                    | 22.21                       | 22.03                     | 22                        | 2           |  |  |  |  |
| 20                            | 16QAM      | 50      | 0         | 20.87                    | 20.91                       | 20.66                     |                           |             |  |  |  |  |
| 20                            | 16QAM      | 50      | 24        | 20.74                    | 20.85                       | 20.52                     |                           |             |  |  |  |  |
| 20                            | 16QAM      | 50      | 50        | 20.79                    | 20.84                       | 20.56                     | 22                        | 2           |  |  |  |  |
| 20                            | 16QAM      | 100     | 0         | 20.83                    | 20.94                       | 20.91                     |                           |             |  |  |  |  |
| 20                            | 64QAM      | 1       | 0         | 20.55                    | 20.74                       | 20.48                     | 22                        | 2           |  |  |  |  |
| 20                            | 64QAM      | 1       | 49        | 20.43                    | 20.69                       | 20.36                     |                           |             |  |  |  |  |
| 20                            | 64QAM      | 1       | 99        | 20.50                    | 20.59                       | 20.33                     |                           |             |  |  |  |  |
| 20                            | 64QAM      | 50      | 0         | 19.75                    | 19.94                       | 19.68                     | 21                        | 3           |  |  |  |  |
| 20                            | 64QAM      | 50      | 24        | 19.61                    | 19.84                       | 19.55                     |                           |             |  |  |  |  |
| 20                            | 64QAM      | 50      | 50        | 19.51                    | 19.80                       | 19.50                     |                           |             |  |  |  |  |
| 20                            | 64QAM      | 100     | 0         | 19.73                    | 19.90                       | 19.86                     | 19                        | 5           |  |  |  |  |
| 20                            | 256QAM     | 1       | 0         | 17.46                    | 17.67                       | 17.65                     |                           |             |  |  |  |  |
| 20                            | 256QAM     | 1       | 49        | 17.27                    | 17.61                       | 17.52                     |                           |             |  |  |  |  |
| 20                            | 256QAM     | 1       | 99        | 17.25                    | 17.56                       | 17.44                     | 19                        | 5           |  |  |  |  |
| 20                            | 256QAM     | 50      | 0         | 17.43                    | 17.72                       | 17.67                     |                           |             |  |  |  |  |
| 20                            | 256QAM     | 50      | 24        | 17.32                    | 17.59                       | 17.49                     |                           |             |  |  |  |  |
| 20                            | 256QAM     | 50      | 50        | 17.31                    | 17.53                       | 17.50                     | 20                        | 5           |  |  |  |  |
| 20                            | 256QAM     | 100     | 0         | 17.26                    | 17.44                       | 17.35                     |                           |             |  |  |  |  |
| Channel                       |            |         |           | 20825                    | 21100                       | 21375                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |  |  |
| Frequency (MHz)               |            |         |           | 2507.5                   | 2535                        | 2562.5                    |                           |             |  |  |  |  |
| 15                            | QPSK       | 1       | 0         | 22.31                    | 22.57                       | 22.51                     | 24                        | 0           |  |  |  |  |
| 15                            | QPSK       | 1       | 37        | 22.22                    | 22.51                       | 22.47                     |                           |             |  |  |  |  |
| 15                            | QPSK       | 1       | 74        | 22.16                    | 22.45                       | 22.40                     |                           |             |  |  |  |  |
| 15                            | QPSK       | 36      | 0         | 21.53                    | 21.80                       | 21.55                     | 23                        | 1           |  |  |  |  |
| 15                            | QPSK       | 36      | 20        | 21.42                    | 21.73                       | 21.46                     |                           |             |  |  |  |  |
| 15                            | QPSK       | 36      | 39        | 21.49                    | 21.74                       | 21.43                     |                           |             |  |  |  |  |
| 15                            | QPSK       | 75      | 0         | 21.57                    | 21.68                       | 21.61                     | 23                        | 1           |  |  |  |  |
| 15                            | 16QAM      | 1       | 0         | 21.92                    | 22.14                       | 22.06                     |                           |             |  |  |  |  |
| 15                            | 16QAM      | 1       | 37        | 21.85                    | 22.03                       | 21.97                     |                           |             |  |  |  |  |
| 15                            | 16QAM      | 1       | 74        | 21.82                    | 22.14                       | 21.90                     | 22                        | 2           |  |  |  |  |
| 15                            | 16QAM      | 36      | 0         | 20.73                    | 20.83                       | 20.54                     |                           |             |  |  |  |  |
| 15                            | 16QAM      | 36      | 20        | 20.63                    | 20.75                       | 20.42                     |                           |             |  |  |  |  |
| 15                            | 16QAM      | 36      | 39        | 20.66                    | 20.77                       | 20.46                     | 22                        | 2           |  |  |  |  |
| 15                            | 16QAM      | 75      | 0         | 20.75                    | 20.88                       | 20.80                     |                           |             |  |  |  |  |
| 15                            | 64QAM      | 1       | 0         | 20.43                    | 20.60                       | 20.40                     |                           |             |  |  |  |  |
| 15                            | 64QAM      | 1       | 37        | 20.37                    | 20.54                       | 20.27                     | 22                        | 2           |  |  |  |  |
| 15                            | 64QAM      | 1       | 74        | 20.43                    | 20.53                       | 20.26                     |                           |             |  |  |  |  |
| 15                            | 64QAM      | 36      | 0         | 19.60                    | 19.84                       | 19.54                     |                           |             |  |  |  |  |
| 15                            | 64QAM      | 36      | 20        | 19.50                    | 19.75                       | 19.45                     | 21                        | 3           |  |  |  |  |
| 15                            | 64QAM      | 36      | 39        | 19.40                    | 19.68                       | 19.39                     |                           |             |  |  |  |  |
| 15                            | 64QAM      | 75      | 0         | 19.65                    | 19.79                       | 19.71                     |                           |             |  |  |  |  |
| 15                            | 256QAM     | 1       | 0         | 17.50                    | 17.73                       | 17.66                     | 19                        | 5           |  |  |  |  |
| 15                            | 256QAM     | 1       | 37        | 17.35                    | 17.62                       | 17.55                     |                           |             |  |  |  |  |
| 15                            | 256QAM     | 1       | 74        | 17.30                    | 17.59                       | 17.50                     |                           |             |  |  |  |  |
| 15                            | 256QAM     | 36      | 0         | 17.47                    | 17.74                       | 17.67                     | 19                        | 5           |  |  |  |  |
| 15                            | 256QAM     | 36      | 20        | 17.29                    | 17.57                       | 17.58                     |                           |             |  |  |  |  |
| 15                            | 256QAM     | 36      | 39        | 17.27                    | 17.55                       | 17.48                     |                           |             |  |  |  |  |
| 15                            | 256QAM     | 75      | 0         | 17.29                    | 17.57                       | 17.46                     | 20                        | 5           |  |  |  |  |
| Channel                       |            |         |           | 20800                    | 21100                       | 21400                     |                           |             |  |  |  |  |
| Frequency (MHz)               |            |         |           | 2505                     | 2535                        | 2565                      | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |  |  |
| 10                            | QPSK       | 1       | 0         | 22.39                    | 22.59                       | 22.53                     |                           | 24          |  |  |  |  |
| 10                            | QPSK       | 1       | 25        | 22.23                    | 22.52                       | 22.47                     |                           |             |  |  |  |  |
| 10                            | QPSK       | 1       | 49        | 22.16                    | 22.45                       | 22.37                     |                           |             |  |  |  |  |
| 10                            | QPSK       | 25      | 0         | 21.54                    | 21.85                       | 21.55                     | 23                        | 1           |  |  |  |  |
| 10                            | QPSK       | 25      | 12        | 21.46                    | 21.71                       | 21.49                     |                           |             |  |  |  |  |
| 10                            | QPSK       | 25      | 25        | 21.54                    | 21.71                       | 21.40                     |                           |             |  |  |  |  |
| 10                            | QPSK       | 50      | 0         | 21.57                    | 21.73                       | 21.63                     | 23                        | 1           |  |  |  |  |
| 10                            | 16QAM      | 1       | 0         | 21.94                    | 22.22                       | 22.08                     |                           |             |  |  |  |  |
| 10                            | 16QAM      | 1       | 25        | 21.80                    | 21.99                       | 22.02                     |                           |             |  |  |  |  |
| 10                            | 16QAM      | 1       | 49        | 21.85                    | 22.15                       | 21.89                     | 22                        | 2           |  |  |  |  |
| 10                            | 16QAM      | 25      | 0         | 20.74                    | 20.85                       | 20.54                     |                           |             |  |  |  |  |
| 10                            | 16QAM      | 25      | 12        | 20.63                    | 20.74                       | 20.39                     |                           |             |  |  |  |  |
| 10                            | 16QAM      | 25      | 25        | 20.66                    | 20.71                       | 20.50                     | 22                        | 2           |  |  |  |  |
| 10                            | 16QAM      | 50      | 0         | 20.70                    | 20.80                       | 20.79                     |                           |             |  |  |  |  |
| 10                            | 64QAM      | 1       | 0         | 20.46                    | 20.65                       | 20.42                     |                           |             |  |  |  |  |
| 10                            | 64QAM      | 1       | 25        | 20.38                    | 20.63                       | 20.29                     | 22                        | 2           |  |  |  |  |
| 10                            | 64QAM      | 1       | 49        | 20.35                    | 20.45                       | 20.27                     |                           |             |  |  |  |  |
| 10                            | 64QAM      | 25      | 0         | 19.61                    | 19.79                       | 19.54                     |                           |             |  |  |  |  |
| 10                            | 64QAM      | 25      | 12        | 19.53                    | 19.75                       | 19.45                     | 21                        | 3           |  |  |  |  |
| 10                            | 64QAM      | 25      | 25        | 19.40                    | 19.72                       | 19.38                     |                           |             |  |  |  |  |
| 10                            | 64QAM      | 50      | 0         | 19.59                    | 19.80                       | 19.75                     |                           |             |  |  |  |  |
| 10                            | 256QAM     | 1       | 0         | 17.37                    | 17.63                       | 17.50                     | 19                        | 5           |  |  |  |  |
| 10                            | 256QAM     | 1       | 25        | 17.21                    | 17.53                       | 17.47                     |                           |             |  |  |  |  |
| 10                            | 256QAM     | 1       | 49        | 17.14                    | 17.42                       | 17.37                     |                           |             |  |  |  |  |
| 10                            | 256QAM     | 25      | 0         | 17.42                    | 17.57                       | 17.52                     | 19                        | 5           |  |  |  |  |
| 10                            | 256QAM     | 25      | 12        | 17.27                    | 17.51                       | 17.47                     |                           |             |  |  |  |  |
| 10                            | 256QAM     | 25      | 25        | 17.13                    | 17.44                       | 17.34                     |                           |             |  |  |  |  |
| 10                            | 256QAM     | 50      | 0         | 17.43                    | 17.57                       | 17.49                     | 21                        | 5           |  |  |  |  |
| Channel                       |            |         |           | 20775                    | 21100                       | 21425                     |                           |             |  |  |  |  |
| Frequency (MHz)               |            |         |           | 2502.5                   | 2535                        | 2567.5                    | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |  |  |
| 5                             | QPSK       | 1       | 0         | 22.30                    | 22.59                       | 22.53                     |                           | 24          |  |  |  |  |
| 5                             | QPSK       | 1       | 12        | 22.17                    | 22.49                       | 22.39                     |                           |             |  |  |  |  |
| 5                             | QPSK       | 1       | 24        | 22.20                    | 22.46                       | 22.38                     |                           |             |  |  |  |  |
| 5                             | QPSK       | 12      | 0         | 21.54                    | 21.83                       | 21.51                     | 23                        | 1           |  |  |  |  |
| 5                             | QPSK       | 12      | 7         | 21.42                    | 21.67                       | 21.48                     |                           |             |  |  |  |  |
| 5                             | QPSK       | 12      | 13        | 21.53                    | 21.71                       | 21.48                     |                           |             |  |  |  |  |
| 5                             | QPSK       | 25      | 0         | 21.57                    | 21.75                       | 21.67                     | 23                        | 1           |  |  |  |  |
| 5                             | 16QAM      | 1       | 0         | 21.89                    | 22.19                       | 22.10                     |                           |             |  |  |  |  |
| 5                             | 16QAM      | 1       | 12        | 21.85                    | 22.00                       | 22.01                     |                           |             |  |  |  |  |
| 5                             | 16QAM      | 1       | 24        | 21.81                    | 22.10                       | 21.92                     | 22                        | 2           |  |  |  |  |
| 5                             | 16QAM      | 12      | 0         | 20.78                    | 20.81                       | 20.58                     |                           |             |  |  |  |  |
| 5                             | 16QAM      | 12      | 7         | 20.65                    | 20.73                       | 20.46                     |                           |             |  |  |  |  |
| 5                             | 16QAM      | 12      | 13        | 20.66                    | 20.76                       | 20.42                     | 22                        | 2           |  |  |  |  |
| 5                             | 16QAM      | 25      | 0         | 20.78                    | 20.86                       | 20.76                     |                           |             |  |  |  |  |
| 5                             | 64QAM      | 1       | 0         | 20.49                    | 20.62                       | 20.34                     |                           |             |  |  |  |  |
| 5                             | 64QAM      | 1       | 12        | 20.33                    | 20.55                       | 20.28                     | 22                        | 2           |  |  |  |  |
| 5                             | 64QAM      | 1       | 24        | 20.38                    | 20.47                       | 20.28                     |                           |             |  |  |  |  |
| 5                             | 64QAM      | 12      | 0         | 19.67                    | 19.80                       | 19.58                     |                           |             |  |  |  |  |
| 5                             | 64QAM      | 12      | 7         | 19.48                    | 19.73                       | 19.46                     | 21                        | 3           |  |  |  |  |
| 5                             | 64QAM      | 12      | 13        | 19.40                    | 19.73                       | 19.42                     |                           |             |  |  |  |  |
| 5                             | 64QAM      | 25      | 0         | 19.61                    | 19.76                       | 19.73                     |                           |             |  |  |  |  |
| 5                             | 256QAM     | 1       | 0         | 17.52                    | 17.64                       | 17.55                     | 19                        | 5           |  |  |  |  |
| 5                             | 256QAM     | 1       | 12        | 17.37                    | 17.51                       | 17.34                     |                           |             |  |  |  |  |
| 5                             | 256QAM     | 1       | 24        | 17.20                    | 17.45                       | 17.43                     |                           |             |  |  |  |  |
| 5                             | 256QAM     | 12      | 0         | 17.29                    | 17.62                       | 17.56                     | 19                        | 5           |  |  |  |  |
| 5                             | 256QAM     | 12      | 7         | 17.16                    | 17.47                       | 17.39                     |                           |             |  |  |  |  |
| 5                             | 256QAM     | 12      | 13        | 17.18                    | 17.45                       | 17.37                     |                           |             |  |  |  |  |
| 5                             | 256QAM     | 25      | 0         | 17.25                    | 17.58                       | 17.51                     | 19                        | 5           |  |  |  |  |
|                               |            |         |           |                          |                             |                           |                           |             |  |  |  |  |
|                               |            |         |           |                          |                             |                           |                           |             |  |  |  |  |
|                               |            |         |           |                          |                             |                           |                           |             |  |  |  |  |

### Band 38 Ant5 DSI2 Simultaneous

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch./ Freq. |       | Power Middle Ch./ Freq. |                     | Power High Ch./ Freq. |          | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|----------------------|-------|-------------------------|---------------------|-----------------------|----------|---------------------|----------|
|                 |            |         |           | 37850                |       | 38000                   |                     | 38150                 |          |                     |          |
|                 |            |         |           | Frequency (MHz)      |       | 2580                    |                     | 2595                  |          |                     |          |
| 20              | QPSK       | 1       | 0         | 22.94                | 22.94 | 22.95                   | 22.93               |                       |          | 24                  | 0        |
| 20              | QPSK       | 1       | 49        | 22.75                | 22.87 | 22.80                   |                     |                       |          |                     |          |
| 20              | QPSK       | 1       | 99        | 22.73                | 22.85 | 22.78                   |                     |                       |          |                     |          |
| 20              | QPSK       | 50      | 0         | 21.91                | 21.94 | 21.89                   |                     |                       |          | 23                  | 1        |
| 20              | QPSK       | 50      | 24        | 21.81                | 21.91 | 21.84                   |                     |                       |          |                     |          |
| 20              | QPSK       | 50      | 50        | 21.77                | 21.88 | 21.78                   |                     |                       |          |                     |          |
| 20              | QPSK       | 100     | 0         | 21.82                | 21.95 | 21.81                   |                     |                       |          | 23                  | 1        |
| 20              | 16QAM      | 1       | 0         | 21.65                | 21.71 | 21.62                   |                     |                       |          |                     |          |
| 20              | 16QAM      | 1       | 49        | 21.53                | 21.65 | 21.59                   |                     |                       |          |                     |          |
| 20              | 16QAM      | 1       | 99        | 21.55                | 21.68 | 21.61                   |                     |                       |          | 22                  | 2        |
| 20              | 16QAM      | 50      | 0         | 20.91                | 21.00 | 20.89                   |                     |                       |          |                     |          |
| 20              | 16QAM      | 50      | 24        | 20.91                | 20.98 | 20.93                   |                     |                       |          |                     |          |
| 20              | 16QAM      | 50      | 50        | 20.83                | 20.95 | 20.82                   |                     |                       |          | 22                  | 2        |
| 20              | 16QAM      | 100     | 0         | 20.79                | 20.87 | 20.78                   |                     |                       |          |                     |          |
| 20              | 64QAM      | 1       | 0         | 21.10                | 21.20 | 21.10                   |                     |                       |          |                     |          |
| 20              | 64QAM      | 1       | 49        | 20.98                | 21.05 | 20.95                   |                     |                       |          | 21                  | 3        |
| 20              | 64QAM      | 1       | 99        | 21.06                | 21.17 | 21.02                   |                     |                       |          |                     |          |
| 20              | 64QAM      | 50      | 0         | 19.78                | 19.89 | 19.75                   |                     |                       |          |                     |          |
| 20              | 64QAM      | 50      | 24        | 19.63                | 19.77 | 19.62                   |                     |                       |          | 19                  | 5        |
| 20              | 64QAM      | 50      | 50        | 19.77                | 19.86 | 19.71                   |                     |                       |          |                     |          |
| 20              | 64QAM      | 100     | 0         | 19.91                | 19.98 | 19.84                   |                     |                       |          |                     |          |
| 20              | 256QAM     | 1       | 0         | 17.95                | 17.90 | 17.91                   |                     |                       |          | 19                  | 5        |
| 20              | 256QAM     | 1       | 49        | 17.71                | 17.84 | 17.77                   |                     |                       |          |                     |          |
| 20              | 256QAM     | 1       | 99        | 17.78                | 17.85 | 17.78                   |                     |                       |          |                     |          |
| 20              | 256QAM     | 50      | 0         | 17.90                | 17.93 | 17.90                   |                     |                       |          | 19                  | 5        |
| 20              | 256QAM     | 50      | 24        | 17.76                | 17.90 | 17.81                   |                     |                       |          |                     |          |
| 20              | 256QAM     | 50      | 50        | 17.68                | 17.86 | 17.77                   |                     |                       |          |                     |          |
| 20              | 256QAM     | 100     | 0         | 17.65                | 17.83 | 17.73                   |                     |                       |          |                     |          |
| Channel         |            |         |           | 37825                | 38000 | 38175                   | Tune-up limit (dBm) |                       | MPR (dB) |                     |          |
| Frequency (MHz) |            |         |           | 2577.5               | 2595  | 2612.5                  |                     |                       |          |                     |          |
| 15              | QPSK       | 1       | 0         | 22.84                | 22.88 | 22.83                   |                     |                       |          | 24                  | 0        |
| 15              | QPSK       | 1       | 37        | 22.68                | 22.77 | 22.69                   |                     |                       |          |                     |          |
| 15              | QPSK       | 1       | 74        | 22.68                | 22.77 | 22.68                   |                     |                       |          |                     |          |
| 15              | QPSK       | 36      | 0         | 21.82                | 21.83 | 21.83                   |                     |                       |          | 23                  | 1        |
| 15              | QPSK       | 36      | 20        | 21.62                | 21.88 | 21.73                   |                     |                       |          |                     |          |
| 15              | QPSK       | 36      | 39        | 21.65                | 21.77 | 21.71                   |                     |                       |          |                     |          |
| 15              | QPSK       | 75      | 0         | 21.75                | 21.80 | 21.71                   |                     |                       |          | 23                  | 1        |
| 15              | 16QAM      | 1       | 0         | 21.54                | 21.59 | 21.56                   |                     |                       |          |                     |          |
| 15              | 16QAM      | 1       | 37        | 21.47                | 21.55 | 21.51                   |                     |                       |          |                     |          |
| 15              | 16QAM      | 1       | 74        | 21.42                | 21.56 | 21.48                   |                     |                       |          | 22                  | 2        |
| 15              | 16QAM      | 36      | 0         | 20.84                | 20.94 | 20.82                   |                     |                       |          |                     |          |
| 15              | 16QAM      | 36      | 20        | 20.79                | 20.83 | 20.79                   |                     |                       |          |                     |          |
| 15              | 16QAM      | 36      | 39        | 20.71                | 20.84 | 20.76                   |                     |                       |          | 22                  | 2        |
| 15              | 16QAM      | 75      | 0         | 20.64                | 20.81 | 20.67                   |                     |                       |          |                     |          |
| 15              | 64QAM      | 1       | 0         | 20.99                | 21.09 | 21.00                   |                     |                       |          |                     |          |
| 15              | 64QAM      | 1       | 37        | 20.85                | 20.95 | 20.82                   |                     |                       |          | 22                  | 2        |
| 15              | 64QAM      | 1       | 74        | 20.96                | 21.07 | 20.93                   |                     |                       |          |                     |          |
| 15              | 64QAM      | 36      | 0         | 19.70                | 19.80 | 19.69                   |                     |                       |          |                     |          |
| 15              | 64QAM      | 36      | 20        | 19.57                | 19.62 | 19.54                   |                     |                       |          | 21                  | 3        |
| 15              | 64QAM      | 36      | 39        | 19.70                | 19.80 | 19.58                   |                     |                       |          |                     |          |
| 15              | 64QAM      | 75      | 0         | 19.76                | 19.92 | 19.70                   |                     |                       |          |                     |          |
| 15              | 256QAM     | 1       | 0         | 17.87                | 17.78 | 17.83                   |                     |                       |          | 19                  | 5        |
| 15              | 256QAM     | 1       | 37        | 17.62                | 17.80 | 17.67                   |                     |                       |          |                     |          |
| 15              | 256QAM     | 1       | 74        | 17.71                | 17.80 | 17.67                   |                     |                       |          |                     |          |
| 15              | 256QAM     | 36      | 0         | 17.76                | 17.80 | 17.76                   |                     |                       |          | 19                  | 5        |
| 15              | 256QAM     | 36      | 20        | 17.67                | 17.84 | 17.70                   |                     |                       |          |                     |          |
| 15              | 256QAM     | 36      | 39        | 17.54                | 17.72 | 17.62                   |                     |                       |          |                     |          |
| 15              | 256QAM     | 75      | 0         | 17.51                | 17.82 | 17.62                   |                     |                       |          |                     |          |
| Channel         |            |         |           | 37800                | 38000 | 38200                   | Tune-up limit (dBm) |                       | MPR (dB) |                     |          |
| Frequency (MHz) |            |         |           | 2575                 | 2595  | 2615                    |                     |                       |          |                     |          |
| 10              | QPSK       | 1       | 0         | 22.86                | 22.87 | 22.82                   |                     |                       |          | 24                  | 0        |
| 10              | QPSK       | 1       | 25        | 22.61                | 22.75 | 22.68                   |                     |                       |          |                     |          |
| 10              | QPSK       | 1       | 49        | 22.60                | 22.75 | 22.64                   |                     |                       |          |                     |          |
| 10              | QPSK       | 25      | 0         | 21.85                | 21.77 | 21.78                   |                     |                       |          | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.74                | 21.87 | 21.73                   |                     |                       |          |                     |          |
| 10              | QPSK       | 25      | 25        | 21.65                | 21.73 | 21.70                   |                     |                       |          |                     |          |
| 10              | QPSK       | 50      | 0         | 21.75                | 21.83 | 21.73                   |                     |                       |          | 23                  | 1        |
| 10              | 16QAM      | 1       | 0         | 21.53                | 21.61 | 21.56                   |                     |                       |          |                     |          |
| 10              | 16QAM      | 1       | 25        | 21.39                | 21.59 | 21.52                   |                     |                       |          |                     |          |
| 10              | 16QAM      | 1       | 49        | 21.47                | 21.56 | 21.46                   |                     |                       |          | 22                  | 2        |
| 10              | 16QAM      | 25      | 0         | 20.77                | 20.88 | 20.83                   |                     |                       |          |                     |          |
| 10              | 16QAM      | 25      | 12        | 20.85                | 20.89 | 20.84                   |                     |                       |          |                     |          |
| 10              | 16QAM      | 25      | 25        | 20.77                | 20.82 | 20.75                   |                     |                       |          | 22                  | 2        |
| 10              | 16QAM      | 50      | 0         | 20.69                | 20.75 | 20.63                   |                     |                       |          |                     |          |
| 10              | 64QAM      | 1       | 0         | 21.02                | 21.08 | 21.05                   |                     |                       |          |                     |          |
| 10              | 64QAM      | 1       | 25        | 20.91                | 20.94 | 20.85                   |                     |                       |          | 21                  | 3        |
| 10              | 64QAM      | 1       | 49        | 20.92                | 21.08 | 20.93                   |                     |                       |          |                     |          |
| 10              | 64QAM      | 25      | 0         | 19.69                | 19.75 | 19.63                   |                     |                       |          |                     |          |
| 10              | 64QAM      | 25      | 12        | 19.48                | 19.70 | 19.54                   |                     |                       |          | 19                  | 5        |
| 10              | 64QAM      | 25      | 25        | 19.63                | 19.78 | 19.58                   |                     |                       |          |                     |          |
| 10              | 64QAM      | 50      | 0         | 19.84                | 19.92 | 19.78                   |                     |                       |          |                     |          |
| 10              | 256QAM     | 1       | 0         | 17.90                | 17.81 | 17.83                   |                     |                       |          | 19                  | 5        |
| 10              | 256QAM     | 1       | 25        | 17.63                | 17.72 | 17.70                   |                     |                       |          |                     |          |
| 10              | 256QAM     | 1       | 49        | 17.73                | 17.76 | 17.72                   |                     |                       |          |                     |          |
| 10              | 256QAM     | 25      | 0         | 17.82                | 17.82 | 17.79                   |                     |                       |          | 19                  | 5        |
| 10              | 256QAM     | 25      | 12        | 17.70                | 17.83 | 17.74                   |                     |                       |          |                     |          |
| 10              | 256QAM     | 25      | 25        | 17.54                | 17.79 | 17.70                   |                     |                       |          |                     |          |
| 10              | 256QAM     | 50      | 0         | 17.51                | 17.83 | 17.66                   |                     |                       |          |                     |          |
| Channel         |            |         |           | 37775                | 38000 | 38225                   | Tune-up limit (dBm) |                       | MPR (dB) |                     |          |
| Frequency (MHz) |            |         |           | 2572.5               | 2595  | 2617.5                  |                     |                       |          |                     |          |
| 5               | QPSK       | 1       | 0         | 22.80                | 22.87 | 22.81                   |                     |                       |          | 24                  | 0        |
| 5               | QPSK       | 1       | 12        | 22.66                | 22.78 | 22.69                   |                     |                       |          |                     |          |
| 5               | QPSK       | 1       | 24        | 22.61                | 22.76 | 22.65                   |                     |                       |          |                     |          |
| 5               | QPSK       | 12      | 0         | 21.84                | 21.76 | 21.76                   |                     |                       |          | 23                  | 1        |
| 5               | QPSK       | 12      | 7         | 21.71                | 21.85 | 21.70                   |                     |                       |          |                     |          |
| 5               | QPSK       | 12      | 13        | 21.66                | 21.73 | 21.65                   |                     |                       |          |                     |          |
| 5               | QPSK       | 25      | 0         | 21.73                | 21.82 | 21.71                   |                     |                       |          | 23                  | 1        |
| 5               | 16QAM      | 1       | 0         | 21.55                | 21.56 | 21.51                   |                     |                       |          |                     |          |
| 5               | 16QAM      | 1       | 12        | 21.41                | 21.55 | 21.46                   |                     |                       |          |                     |          |
| 5               | 16QAM      | 1       | 24        | 21.46                | 21.62 | 21.50                   |                     |                       |          | 22                  | 2        |
| 5               | 16QAM      | 12      | 0         | 20.81                | 20.93 | 20.77                   |                     |                       |          |                     |          |
| 5               | 16QAM      | 12      | 7         | 20.79                | 20.92 | 20.85                   |                     |                       |          |                     |          |
| 5               | 16QAM      | 12      | 13        | 20.75                | 20.87 | 20.74                   |                     |                       |          | 22                  | 2        |
| 5               | 16QAM      | 25      | 0         | 20.70                | 20.77 | 20.69                   |                     |                       |          |                     |          |
| 5               | 64QAM      | 1       | 0         | 20.98                | 21.06 | 21.04                   |                     |                       |          |                     |          |
| 5               | 64QAM      | 1       | 12        | 20.92                | 20.93 | 20.86                   |                     |                       |          | 21                  | 3        |
| 5               | 64QAM      | 1       | 24        | 20.92                | 21.05 | 20.89                   |                     |                       |          |                     |          |
| 5               | 64QAM      | 12      | 0         | 19.68                | 19.75 | 19.68                   |                     |                       |          |                     |          |
| 5               | 64QAM      | 12      | 7         | 19.50                | 19.69 | 19.52                   |                     |                       |          | 19                  | 5        |
| 5               | 64QAM      | 12      | 13        | 19.69                | 19.76 | 19.56                   |                     |                       |          |                     |          |
| 5               | 64QAM      | 25      | 0         | 19.84                | 19.91 | 19.69                   |                     |                       |          |                     |          |
| 5               | 256QAM     | 1       | 0         | 17.89                | 17.79 | 17.85                   |                     |                       |          | 19                  | 5        |
| 5               | 256QAM     | 1       | 12        | 17.59                | 17.70 | 17.70                   |                     |                       |          |                     |          |
| 5               | 256QAM     | 1       | 24        | 17.67                | 17.79 | 17.70                   |                     |                       |          |                     |          |
| 5               | 256QAM     | 12      | 0         | 17.80                | 17.83 | 17.77                   |                     |                       |          | 19                  | 5        |
| 5               | 256QAM     | 12      | 7         | 17.64                | 17.82 | 17.70                   |                     |                       |          |                     |          |
| 5               | 256QAM     | 12      | 13        | 17.57                | 17.81 | 17.70                   |                     |                       |          |                     |          |
| 5               | 256QAM     | 25      | 0         | 17.53                | 17.78 | 17.64                   |                     |                       |          |                     |          |



Reduced Power Mode for DS13 Standalone

| GSMM2 And DS3 Standalone    |                         |       |        |               |                           |        |        |               |       |
|-----------------------------|-------------------------|-------|--------|---------------|---------------------------|--------|--------|---------------|-------|
| GSMM2                       | Swt-Average Power (dBm) |       |        | Turn-up Limit | Front-Average Power (dBm) |        |        | Turn-up Limit |       |
| Tx Channel                  | 198                     | 198   | 201    |               | 198                       | 198    | 201    |               |       |
| Frequency (MHz)             | 824.5                   | 844.5 | 864.5  | (dBm)         | 824.5                     | 844.5  | 864.5  | (dBm)         |       |
| GSMM 1 Tx channel           | 31.69                   | 31.91 | 31.78  | 32.90         | 22.69                     | 22.91  | 22.78  | 23.09         |       |
| GPMS 1 Tx channel           | 31.86                   | 31.96 | 31.95  | 32.90         | 22.86                     | 22.96  | 22.95  | 23.09         |       |
| GPMS 2 Tx channel           | 26.79                   | 28.31 | 29.88  | 29.90         | 22.79                     | 23.91  | 25.88  | 23.09         |       |
| GPMS 3 Tx channel           | 27.11                   | 27.30 | 27.29  | 28.10         | 22.85                     | 23.04  | 23.03  | 23.84         |       |
| GPMS 4 Tx channel           | 26.50                   | 26.53 | 26.16  | 26.90         | 22.50                     | 22.51  | 25.15  | 23.55         |       |
| EDGE-1 Tx channel           | 26.14                   | 26.24 | 26.17  | 27.00         | 17.14                     | 17.24  | 17.17  | 18.00         |       |
| EDGE-2 Tx channel           | 24.94                   | 25.16 | 25.06  | 26.00         | 16.94                     | 16.16  | 16.06  | 20.00         |       |
| EDGE-3 Tx channel           | 22.90                   | 22.79 | 22.91  | 24.00         | 16.68                     | 16.50  | 16.05  | 19.74         |       |
| EDGE-4 Tx channel           | 20.81                   | 20.76 | 20.47  | 22.00         | 17.81                     | 17.76  | 17.47  | 19.00         |       |
| GSMM2 And DS3 Standalone    |                         |       |        |               |                           |        |        |               |       |
| GSMM2                       | Swt-Average Power (dBm) |       |        | Turn-up Limit | Front-Average Power (dBm) |        |        | Turn-up Limit |       |
| Tx Channel                  | 512                     | 661   | 810    |               | 512                       | 661    | 810    |               |       |
| Frequency (MHz)             | 1603.5                  | 1643  | 1683.5 | (dBm)         | 1603.5                    | 1643   | 1683.5 | (dBm)         |       |
| GSMM 1 Tx channel           | 26.41                   | 26.22 | 26.36  | 26.80         | 19.41                     | 19.22  | 19.36  | 19.09         |       |
| GPMS 1 Tx channel           | 26.54                   | 26.37 | 26.50  | 26.80         | 19.54                     | 19.37  | 19.50  | 19.09         |       |
| GPMS 2 Tx channel           | 24.45                   | 24.45 | 24.34  | 25.55         | 15.45                     | 15.45  | 15.24  | 15.55         |       |
| GPMS 3 Tx channel           | 22.40                   | 22.47 | 22.43  | 24.00         | 16.14                     | 16.21  | 16.17  | 16.74         |       |
| GPMS 4 Tx channel           | 21.00                   | 21.00 | 21.45  | 22.50         | 16.40                     | 16.40  | 16.45  | 16.55         |       |
| EDGE-1 Tx channel           | 25.42                   | 25.70 | 25.31  | 27.00         | 16.42                     | 16.70  | 16.31  | 18.00         |       |
| EDGE-2 Tx channel           | 24.16                   | 24.54 | 24.54  | 25.50         | 16.16                     | 16.54  | 16.54  | 20.00         |       |
| EDGE-3 Tx channel           | 22.12                   | 22.08 | 21.67  | 23.50         | 17.66                     | 17.50  | 17.41  | 18.24         |       |
| EDGE-4 Tx channel           | 19.93                   | 20.00 | 19.95  | 21.50         | 16.93                     | 17.00  | 16.96  | 18.50         |       |
| WCDMA IV And DS3 Standalone |                         |       |        |               |                           |        |        |               |       |
| Band                        | WCDMA IV                |       |        | Turn-up Limit | WCDMA IV                  |        |        | Turn-up Limit |       |
| Tx Channel                  | 8502                    | 9400  | 9596   |               | 1312                      | 1418   | 1518   |               |       |
| Frequency (MHz)             | 1652.4                  | 1680  | 1697.6 | (dBm)         | 1712.4                    | 1732.6 | 1752.6 | (dBm)         |       |
| SCPP Ref SW                 | AMR 12.7Kbps            | 17.31 | 17.36  | 17.11         | 16.90                     | 16.36  | 16.45  | 16.00         | 22.29 |
| SCPP Ref SW                 | AMR 12.7Kbps            | 17.44 | 17.50  | 17.31         | 16.90                     | 16.53  | 16.61  | 16.00         | 21.44 |
| SCPP Ref B                  | HSPA Subnet-1           | 16.40 | 16.40  | 16.31         | 17.60                     | 15.23  | 15.34  | 15.23         | 17.00 |
| SCPP Ref B                  | HSPA Subnet-2           | 16.37 | 16.47  | 16.44         | 17.50                     | 15.20  | 15.42  | 15.34         | 17.00 |
| SCPP Ref B                  | HSPA Subnet-3           | 16.03 | 15.93  | 16.03         | 17.40                     | 15.08  | 15.00  | 15.15         | 16.50 |
| SCPP Ref B                  | HSPA Subnet-4           | 15.86 | 15.92  | 16.02         | 17.40                     | 15.04  | 15.23  | 15.00         | 20.00 |
| SCPP Ref B                  | DC-HSPA Subnet-1        | 16.49 | 16.54  | 16.31         | 17.60                     | 15.39  | 15.41  | 15.12         | 17.00 |
| SCPP Ref B                  | DC-HSPA Subnet-2        | 16.27 | 16.56  | 16.38         | 17.60                     | 15.24  | 15.38  | 15.24         | 17.00 |
| SCPP Ref B                  | DC-HSPA Subnet-3        | 16.01 | 16.06  | 15.96         | 17.40                     | 15.06  | 15.01  | 15.21         | 16.00 |
| SCPP Ref B                  | DC-HSPA Subnet-4        | 15.87 | 16.06  | 16.05         | 17.40                     | 15.07  | 15.22  | 15.22         | 16.00 |
| SCPP Ref B                  | HSPA Subnet-1           | 16.20 | 16.23  | 16.37         | 17.50                     | 15.22  | 15.20  | 15.22         | 17.00 |
| SCPP Ref B                  | HSPA Subnet-2           | 14.52 | 14.54  | 14.43         | 15.00                     | 13.03  | 14.01  | 14.02         | 15.00 |
| SCPP Ref B                  | HSPA Subnet-3           | 15.44 | 15.48  | 15.32         | 16.00                     | 14.00  | 14.00  | 14.78         | 16.00 |
| SCPP Ref B                  | HSPA Subnet-4           | 14.47 | 14.46  | 14.33         | 15.00                     | 13.84  | 13.97  | 13.82         | 15.00 |
| SCPP Ref B                  | HSPA Subnet-5           | 16.40 | 16.41  | 16.55         | 17.50                     | 15.32  | 15.20  | 15.45         | 17.00 |
| SCPP Ref B                  | HSPA TDDMA Subnet-1     | 13.97 | 14.05  | 13.90         | 14.40                     | 13.05  | 13.03  | 12.94         | 14.00 |

| WCDMA V And DS3 Standalone |                     |       |        |               |         |        |        |               |       |
|----------------------------|---------------------|-------|--------|---------------|---------|--------|--------|---------------|-------|
| Band                       | WCDMA V             |       |        | Turn-up Limit | WCDMA V |        |        | Turn-up Limit |       |
| Tx Channel                 | 8502                | 9400  | 9596   |               | 1312    | 1418   | 1518   |               |       |
| Frequency (MHz)            | 1652.4              | 1680  | 1697.6 | (dBm)         | 1712.4  | 1732.6 | 1752.6 | (dBm)         |       |
| SCPP Ref SW                | AMR 12.7Kbps        | 17.31 | 17.36  | 17.11         | 16.90   | 16.36  | 16.45  | 16.00         | 22.29 |
| SCPP Ref SW                | AMR 12.7Kbps        | 17.44 | 17.50  | 17.31         | 16.90   | 16.53  | 16.61  | 16.00         | 21.44 |
| SCPP Ref B                 | HSPA Subnet-1       | 16.40 | 16.40  | 16.31         | 17.60   | 15.23  | 15.34  | 15.23         | 17.00 |
| SCPP Ref B                 | HSPA Subnet-2       | 16.37 | 16.47  | 16.44         | 17.50   | 15.20  | 15.42  | 15.34         | 17.00 |
| SCPP Ref B                 | HSPA Subnet-3       | 16.03 | 15.93  | 16.03         | 17.40   | 15.08  | 15.00  | 15.15         | 16.50 |
| SCPP Ref B                 | HSPA Subnet-4       | 15.86 | 15.92  | 16.02         | 17.40   | 15.04  | 15.23  | 15.00         | 20.00 |
| SCPP Ref B                 | DC-HSPA Subnet-1    | 16.49 | 16.54  | 16.31         | 17.60   | 15.39  | 15.41  | 15.12         | 17.00 |
| SCPP Ref B                 | DC-HSPA Subnet-2    | 16.27 | 16.56  | 16.38         | 17.60   | 15.24  | 15.38  | 15.24         | 17.00 |
| SCPP Ref B                 | DC-HSPA Subnet-3    | 16.01 | 16.06  | 15.96         | 17.40   | 15.06  | 15.01  | 15.21         | 16.00 |
| SCPP Ref B                 | DC-HSPA Subnet-4    | 15.87 | 16.06  | 16.05         | 17.40   | 15.07  | 15.22  | 15.22         | 16.00 |
| SCPP Ref B                 | HSPA Subnet-1       | 16.20 | 16.23  | 16.37         | 17.50   | 15.22  | 15.20  | 15.22         | 17.00 |
| SCPP Ref B                 | HSPA Subnet-2       | 14.52 | 14.54  | 14.43         | 15.00   | 13.03  | 14.01  | 14.02         | 15.00 |
| SCPP Ref B                 | HSPA Subnet-3       | 15.44 | 15.48  | 15.32         | 16.00   | 14.00  | 14.00  | 14.78         | 16.00 |
| SCPP Ref B                 | HSPA Subnet-4       | 14.47 | 14.46  | 14.33         | 15.00   | 13.84  | 13.97  | 13.82         | 15.00 |
| SCPP Ref B                 | HSPA Subnet-5       | 16.40 | 16.41  | 16.55         | 17.50   | 15.32  | 15.20  | 15.45         | 17.00 |
| SCPP Ref B                 | HSPA TDDMA Subnet-1 | 13.97 | 14.05  | 13.90         | 14.40   | 13.05  | 13.03  | 12.94         | 14.00 |

| Band 2 Ant0 DS13 Standalone |            |         |           |                           |                           |                            |                          |             |      |   |  |  |
|-----------------------------|------------|---------|-----------|---------------------------|---------------------------|----------------------------|--------------------------|-------------|------|---|--|--|
| BW (MHz)                    | Modulation | RB Size | RB Offset | Power<br>Max<br>Ch./Freq. | Power<br>Low<br>Ch./Freq. | Power<br>High<br>Ch./Freq. | Turn-up<br>Init.<br>(dB) | MPE<br>(dB) |      |   |  |  |
| Channel                     |            |         |           |                           |                           |                            |                          |             |      |   |  |  |
| Frequency (MHz)             |            |         |           |                           |                           |                            |                          |             |      |   |  |  |
| 20                          | QPSK       | 1       | 0         | 17.56                     | 17.73                     | 17.62                      |                          |             | 18.3 | 0 |  |  |
| 20                          | QPSK       | 1       | 49        | 17.49                     | 17.57                     | 17.60                      |                          |             |      |   |  |  |
| 20                          | QPSK       | 1       | 99        | 17.86                     | 17.93                     | 17.88                      |                          |             | 18.3 | 0 |  |  |
| 20                          | QPSK       | 50      | 0         | 17.47                     | 17.68                     | 17.56                      |                          |             |      |   |  |  |
| 20                          | QPSK       | 50      | 24        | 17.38                     | 17.52                     | 17.35                      |                          |             | 18.3 | 0 |  |  |
| 20                          | QPSK       | 50      | 50        | 17.85                     | 17.46                     | 17.48                      |                          |             |      |   |  |  |
| 20                          | QPSK       | 100     | 0         | 17.52                     | 17.55                     | 17.50                      |                          |             | 18.3 | 0 |  |  |
| 20                          | QPSK       | 1       | 0         | 17.49                     | 17.57                     | 17.48                      |                          |             |      |   |  |  |
| 20                          | HQAM       | 1       | 49        | 17.40                     | 17.62                     | 17.49                      |                          |             | 18.3 | 0 |  |  |
| 20                          | HQAM       | 1       | 99        | 17.55                     | 17.57                     | 17.59                      |                          |             |      |   |  |  |
| 20                          | HQAM       | 50      | 0         | 17.37                     | 17.47                     | 17.40                      |                          |             | 18.3 | 0 |  |  |
| 20                          | HQAM       | 50      | 24        | 17.32                     | 17.40                     | 17.29                      |                          |             |      |   |  |  |
| 20                          | HQAM       | 50      | 50        | 17.36                     | 17.34                     | 17.40                      |                          |             | 18.3 | 0 |  |  |
| 20                          | HQAM       | 100     | 0         | 17.37                     | 17.39                     | 17.44                      |                          |             |      |   |  |  |
| 20                          | HQAM       | 1       | 0         | 17.44                     | 17.39                     | 17.36                      |                          |             | 18.3 | 0 |  |  |
| 20                          | HQAM       | 1       | 49        | 17.23                     | 17.55                     | 17.34                      |                          |             |      |   |  |  |
| 20                          | HQAM       | 50      | 99        | 17.43                     | 17.45                     | 17.45                      |                          |             | 18.3 | 0 |  |  |
| 20                          | HQAM       | 50      | 0         | 17.37                     | 17.35                     | 17.34                      |                          |             |      |   |  |  |
| 20                          | HQAM       | 50      | 24        | 17.24                     | 17.38                     | 17.29                      |                          |             | 18.3 | 0 |  |  |
| 20                          | HQAM       | 50      | 25        | 17.27                     | 17.17                     | 17.38                      |                          |             |      |   |  |  |
| 20                          | HQAM       | 100     | 0         | 17.43                     | 17.25                     | 17.40                      |                          |             | 18.3 | 0 |  |  |
| 20                          | HQAM       | 1       | 49        | 17.21                     | 17.46                     | 17.40                      |                          |             |      |   |  |  |
| 20                          | SSBQAM     | 1       | 49        | 17.22                     | 17.28                     | 17.32                      |                          |             | 18.3 | 0 |  |  |
| 20                          | SSBQAM     | 1       | 99        | 17.16                     | 17.35                     | 17.28                      |                          |             |      |   |  |  |
| 20                          | HQAM       | 50      | 24        | 17.32                     | 17.29                     | 17.30                      |                          |             | 18.3 | 0 |  |  |
| 20                          | HQAM       | 50      | 24        | 17.15                     | 17.20                     | 17.21                      |                          |             |      |   |  |  |
| 20                          | SSBQAM     | 50      | 50        | 17.11                     | 17.19                     | 17.21                      |                          |             | 18.3 | 0 |  |  |
| 20                          | SSBQAM     | 100     | 0         | 17.17                     | 17.23                     | 17.20                      |                          |             |      |   |  |  |
| Channel                     |            |         |           |                           |                           |                            |                          |             |      |   |  |  |
| Frequency (MHz)             |            |         |           |                           |                           |                            |                          |             |      |   |  |  |
| 15                          | QPSK       | 1       | 0         | 18.07                     | 18.00                     | 18.03                      |                          |             | 18.3 | 0 |  |  |
| 15                          | QPSK       | 1       | 37        | 17.60                     | 17.62                     | 17.60                      |                          |             |      |   |  |  |
| 15                          | QPSK       | 1       | 74        | 17.58                     | 17.54                     | 17.62                      |                          |             | 18.3 | 0 |  |  |
| 15                          | QPSK       | 36      | 0         | 17.39                     | 17.59                     | 17.56                      |                          |             |      |   |  |  |
| 15                          | QPSK       | 36      | 20        | 17.38                     | 17.51                     | 17.42                      |                          |             | 18.3 | 0 |  |  |
| 15                          | QPSK       | 36      | 39        | 17.39                     | 17.36                     | 17.40                      |                          |             |      |   |  |  |
| 15                          | QPSK       | 75      | 0         | 17.40                     | 17.40                     | 17.23                      |                          |             | 18.3 | 0 |  |  |
| 15                          | HQAM       | 1       | 0         | 17.51                     | 17.53                     | 17.54                      |                          |             |      |   |  |  |
| 15                          | HQAM       | 1       | 37        | 17.25                     | 17.43                     | 17.38                      |                          |             | 18.3 | 0 |  |  |
| 15                          | HQAM       | 1       | 74        | 17.41                     | 17.46                     | 17.40                      |                          |             |      |   |  |  |
| 15                          | HQAM       | 36      | 0         | 17.34                     | 17.42                     | 17.56                      |                          |             | 18.3 | 0 |  |  |
| 15                          | HQAM       | 36      | 20        | 17.25                     | 17.42                     | 17.34                      |                          |             |      |   |  |  |
| 15                          | HQAM       | 36      | 39        | 17.31                     | 17.32                     | 17.30                      |                          |             | 18.3 | 0 |  |  |
| 15                          | HQAM       | 75      | 0         | 17.42                     | 17.25                     | 17.37                      |                          |             |      |   |  |  |
| 15                          | HQAM       | 1       | 0         | 17.38                     | 17.29                     | 17.45                      |                          |             | 18.3 | 0 |  |  |
| 15                          | HQAM       | 1       | 37        | 17.14                     | 17.62                     | 17.40                      |                          |             |      |   |  |  |
| 15                          | HQAM       | 1       | 74        | 17.43                     | 17.45                     | 17.34                      |                          |             | 18.3 | 0 |  |  |
| 15                          | HQAM       | 36      | 0         | 17.23                     | 17.31                     | 17.55                      |                          |             |      |   |  |  |
| 15                          | HQAM       | 36      | 20        | 17.26                     | 17.34                     | 17.56                      |                          |             | 18.3 | 0 |  |  |
| 15                          | HQAM       | 36      | 39        | 17.35                     | 17.12                     | 17.25                      |                          |             |      |   |  |  |
| 15                          | HQAM       | 75      | 0         | 17.46                     | 17.27                     | 17.28                      |                          |             | 18.3 | 0 |  |  |
| 15                          | HQAM       | 1       | 0         | 17.28                     | 17.36                     | 17.51                      |                          |             |      |   |  |  |
| 15                          | SSBQAM     | 1       | 37        | 17.16                     | 17.17                     | 17.22                      |                          |             | 18.3 | 0 |  |  |
| 15                          | SSBQAM     | 1       | 74        | 17.08                     | 17.30                     | 17.14                      |                          |             |      |   |  |  |
| 15                          | SSBQAM     | 36      | 0         | 17.23                     | 17.29                     | 17.40                      |                          |             | 18.3 | 0 |  |  |
| 15                          | SSBQAM     | 36      | 20        | 17.02                     | 17.12                     | 17.14                      |                          |             |      |   |  |  |
| 15                          | SSBQAM     | 36      | 39        | 17.03                     | 17.03                     | 17.16                      |                          |             | 18.3 | 0 |  |  |
| 15                          | SSBQAM     | 75      | 0         | 17.11                     | 17.16                     | 17.07                      |                          |             |      |   |  |  |
| Channel                     |            |         |           |                           |                           |                            |                          |             |      |   |  |  |
| Frequency (MHz)             |            |         |           |                           |                           |                            |                          |             |      |   |  |  |
| 10                          | QPSK       | 1       | 0         | 17.69                     | 17.69                     | 17.69                      |                          |             | 18.3 | 0 |  |  |
| 10                          | QPSK       | 1       | 25        | 17.46                     | 17.49                     | 17.47                      |                          |             |      |   |  |  |
| 10                          | QPSK       | 1       | 49        | 17.61                     | 17.41                     | 17.60                      |                          |             | 18.3 | 0 |  |  |
| 10                          | QPSK       | 25      | 0         | 17.48                     | 17.56                     | 17.48                      |                          |             |      |   |  |  |
| 10                          | QPSK       | 25      | 12        | 17.33                     | 17.32                     | 17.36                      |                          |             | 18.3 | 0 |  |  |
| 10                          | QPSK       | 25      | 25        | 17.49                     | 17.47                     | 17.54                      |                          |             |      |   |  |  |
| 10                          | HQAM       | 1       | 0         | 17.48                     | 17.47                     | 17.52                      |                          |             | 18.3 | 0 |  |  |
| 10                          | HQAM       | 1       | 25        | 17.23                     | 17.51                     | 17.40                      |                          |             |      |   |  |  |
| 10                          | HQAM       | 1       | 49        | 17.38                     | 17.48                     | 17.35                      |                          |             | 18.3 | 0 |  |  |
| 10                          | HQAM       | 25      | 0         | 17.33                     | 17.30                     | 17.30                      |                          |             |      |   |  |  |
| 10                          | HQAM       | 25      | 12        | 17.24                     | 17.32                     | 17.28                      |                          |             | 18.3 | 0 |  |  |
| 10                          | HQAM       | 25      | 25        | 17.29                     | 17.14                     | 17.37                      |                          |             |      |   |  |  |
| 10                          | HQAM       | 50      | 0         | 17.43                     | 17.22                     | 17.40                      |                          |             | 18.3 | 0 |  |  |
| 10                          | HQAM       | 1       | 0         | 17.39                     | 17.37                     | 17.30                      |                          |             |      |   |  |  |
| 10                          | HQAM       | 1       | 25        | 17.19                     | 17.37                     | 17.12                      |                          |             | 18.3 | 0 |  |  |
| 10                          | HQAM       | 1       | 49        | 17.38                     | 17.48                     | 17.35                      |                          |             |      |   |  |  |
| 10                          | HQAM       | 25      | 0         | 17.33                     | 17.30                     | 17.30                      |                          |             | 18.3 | 0 |  |  |
| 10                          | HQAM       | 25      | 12        | 17.24                     | 17.32                     | 17.28                      |                          |             |      |   |  |  |
| 10                          | HQAM       | 25      | 25        | 17.29                     | 17.14                     | 17.37                      |                          |             | 18.3 | 0 |  |  |
| 10                          | HQAM       | 50      | 0         | 17.43                     | 17.28                     | 17.40                      |                          |             |      |   |  |  |
| 10                          | SSBQAM     | 1       | 25        | 17.36                     | 17.38                     | 17.36                      |                          |             | 18.3 | 0 |  |  |
| 10                          | SSBQAM     | 1       | 25        | 17.14                     | 17.16                     | 17.18                      |                          |             |      |   |  |  |
| 10                          | SSBQAM     | 1       | 49        | 17.11                     | 17.21                     | 17.13                      |                          |             | 18.3 | 0 |  |  |
| 10                          | SSBQAM     | 12      | 0         | 17.22                     | 17.26                     | 17.25                      |                          |             |      |   |  |  |
| 10                          | SSBQAM     | 25      | 12        | 17.07                     | 17.08                     | 17.16                      |                          |             | 18.3 | 0 |  |  |
| 10                          | SSBQAM     | 25      | 25        | 17.09                     | 17.08                     | 17.06                      |                          |             |      |   |  |  |
| 10                          | SSBQAM     | 50      | 0         | 17.11                     | 17.17                     | 17.09                      |                          |             | 18.3 | 0 |  |  |
| Channel                     |            |         |           |                           |                           |                            |                          |             |      |   |  |  |
| Frequency (MHz)             |            |         |           |                           |                           |                            |                          |             |      |   |  |  |
| 5                           | QPSK       | 1       | 0         | 17.54                     | 17.68                     | 17.64                      |                          |             | 18.3 | 0 |  |  |
| 5                           | QPSK       | 1       | 12        | 17.47                     | 17.59                     | 17.44                      |                          |             |      |   |  |  |
| 5                           | QPSK       | 1       | 24        | 17.63                     | 17.48                     | 17.55                      |                          |             | 18.3 | 0 |  |  |
| 5                           | QPSK       | 12      | 0         | 17.47                     | 17.55                     | 17.53                      |                          |             |      |   |  |  |
| 5                           | QPSK       | 12      | 7         | 17.29                     | 17.54                     | 17.52                      |                          |             | 18.3 | 0 |  |  |
| 5                           | QPSK       | 12      | 13        | 17.40                     | 17.45                     | 17.54                      |                          |             |      |   |  |  |
| 5                           | QPSK       | 25      | 0         | 17.43                     | 17.50                     | 17.50                      |                          |             | 18.3 | 0 |  |  |
| 5                           | HQAM       | 1       | 0         | 17.47                     | 17.45                     | 17.42                      |                          |             |      |   |  |  |
| 5                           | HQAM       | 1       | 12        | 17.30                     | 17.56                     | 17.38                      |                          |             | 18.3 | 0 |  |  |
| 5                           | HQAM       | 1       | 24        | 17.61                     | 17.41                     | 17.44                      |                          |             |      |   |  |  |
| 5                           | HQAM       | 12      | 0         | 17.24                     | 17.56                     | 17.68                      |                          |             | 18.3 | 0 |  |  |
| 5                           | HQAM       | 12      | 7         | 17.29                     | 17.49                     | 17.23                      |                          |             |      |   |  |  |
| 5                           | HQAM       | 12      | 13        | 17.35                     | 17.29                     | 17.31                      |                          |             | 18.3 | 0 |  |  |
| 5                           | HQAM       | 25      | 0         | 17.45                     | 17.20                     | 17.34                      |                          |             |      |   |  |  |
| 5                           | HQAM       | 1       | 0         | 17.38                     | 17.37                     | 17.30                      |                          |             | 18.3 | 0 |  |  |
| 5                           | HQAM       | 1       | 12        | 17.13                     | 17.38                     | 17.45                      |                          |             |      |   |  |  |
| 5                           | HQAM       | 1       | 24        | 17.38                     | 17.38                     | 17.40                      |                          |             | 18.3 | 0 |  |  |
| 5                           | HQAM       | 12      | 0         | 17.26                     | 17.39                     | 17.60                      |                          |             |      |   |  |  |
| 5                           | HQAM       | 12      | 7         | 17.19                     | 17.37                     | 17.12                      |                          |             | 18.3 | 0 |  |  |
| 5                           | HQAM       | 12      | 13        | 17.37                     | 17.24                     | 17.38                      |                          |             |      |   |  |  |
| 5                           | HQAM       | 25      | 0         | 17.48                     | 17.28                     | 17.34                      |                          |             | 18.3 | 0 |  |  |
| 5                           | SSBQAM     | 1       | 0         | 17.31                     | 17.39                     | 17.34                      |                          |             |      |   |  |  |
| 5                           | SSBQAM     | 1       | 12        | 17.09                     | 17.16                     | 17.25                      |                          |             | 18.3 | 0 |  |  |
| 5                           | SSBQAM     | 1       | 24        | 17.11                     | 17.23                     | 17.16                      |                          |             |      |   |  |  |
| 5                           | SSBQAM     | 12      | 0         | 17.25                     | 17.18                     | 17.17                      |                          |             | 18.3 | 0 |  |  |
| 5                           | SSBQAM     | 12      | 7         | 17.00                     | 17.05                     | 17.09                      |                          |             |      |   |  |  |
| 5                           | SSBQAM     | 12      | 13        | 17.01                     | 17.09                     | 17.15                      |                          |             | 18.3 | 0 |  |  |
| 5                           | SSBQAM     | 25      | 0         | 17.02                     | 17.18                     | 17.07                      |                          |             |      |   |  |  |
| Channel                     |            |         |           |                           |                           |                            |                          |             |      |   |  |  |
| Frequency (MHz)             |            |         |           |                           |                           |                            |                          |             |      |   |  |  |
| 3                           | QPSK       | 1       | 0         | 18.03                     | 18.00                     | 18.03                      |                          |             | 18.3 | 0 |  |  |
| 3                           | QPSK       | 1       | 8         | 17.64                     | 17.66                     | 17.66                      |                          |             |      |   |  |  |
| 3                           | QPSK       | 1       | 16        | 17.81                     | 17.61                     | 17.70                      |                          |             | 18.3 | 0 |  |  |
| 3                           | QPSK       | 1       | 24        | 17.97                     | 17.51                     | 17.65                      |                          |             |      |   |  |  |
| 3                           | QPSK       | 1       | 32        | 17.94                     | 17.48                     | 17.61                      |                          |             | 18.3 | 0 |  |  |
| 3                           | QPSK       | 8       | 0         | 17.41                     | 17.62                     | 17.57                      |                          |             |      |   |  |  |
| 3                           | QPSK       | 8       | 4         | 17.29                     | 17.48                     | 17.38                      |                          |             | 18.3 | 0 |  |  |
| 3                           | QPSK       | 8       | 8         | 17.41                     | 17.35                     | 17.48                      |                          |             |      |   |  |  |
| 3                           | QPSK       | 16      | 0         | 17.43                     | 17.48                     | 17.37                      |                          |             | 18.3 | 0 |  |  |
| 3                           | QPSK       | 16      | 4         | 17.48                     | 17.42                     | 17.47                      |                          |             |      |   |  |  |
| 3                           | HQAM       | 1       | 0         | 17.33                     | 17.55                     | 17.34                      |                          |             | 18.3 | 0 |  |  |
| 3                           | HQAM       | 1       | 8         | 17.33                     | 17.39                     | 17.44                      |                          |             |      |   |  |  |
| 3                           | HQAM       | 1       | 16        | 17.48                     | 17.46                     | 17.48                      |                          |             | 18.3 | 0 |  |  |
| 3                           | HQAM       | 8       | 0         | 17.20                     | 17.40                     | 17.29                      |                          |             |      |   |  |  |
| 3                           | HQAM       | 8       | 4         | 17.22                     | 17.40                     | 17.22                      |                          |             | 18.3 | 0 |  |  |
| 3                           | HQAM       | 8       | 8         | 17.27                     | 17.32                     | 17.27                      |                          |             |      |   |  |  |
| 3                           | HQAM       | 16      | 0         | 17.39                     | 17.34                     | 17.31                      |                          |             | 18.3 | 0 |  |  |
| 3                           | HQAM       | 16      | 4         | 17.14                     | 17.48                     | 17.25                      |                          |             |      |   |  |  |
| 3                           | HQAM       | 1       | 0         | 17.34                     | 17.48                     | 17.37                      |                          |             | 18.3 | 0 |  |  |
| 3                           | HQAM       | 1       | 8         | 17.34                     | 17.48                     | 17.37                      |                          |             |      |   |  |  |
| 3                           | SSBQAM     | 1       | 0         | 17.04                     | 17.12                     | 17.08                      |                          |             | 18.3 | 0 |  |  |
| 3                           | SSBQAM     | 1       | 8         | 17.04                     | 17.12                     | 17.08                      |                          |             |      |   |  |  |
| Channel                     |            |         |           |                           |                           |                            |                          |             |      |   |  |  |
| Frequency (MHz)             |            |         |           |                           |                           |                            |                          |             |      |   |  |  |
| 1.4                         | QPSK       | 1       | 0         | 17.58                     | 17.62                     | 17.60                      |                          |             | 18.3 | 0 |  |  |
| 1.4                         | QPSK       | 1       | 8         | 17.61                     | 17.65                     | 17.63                      |                          |             |      |   |  |  |
| 1.4                         | QPSK       | 1       | 16        | 17.62                     | 17.54                     | 17.56                      |                          |             | 18.3 | 0 |  |  |
| 1.4                         | QPSK       | 1       | 24        | 17.60                     | 17.51                     | 17.54                      |                          |             |      |   |  |  |
| 1.4                         | QPSK       | 1       | 32        | 17.58                     | 17.48                     | 17.53                      |                          |             | 18.3 | 0 |  |  |
| 1.4                         | QPSK       | 8       | 0         | 17.46                     | 17.46                     | 17.46                      |                          |             |      |   |  |  |
| 1.4                         | QPSK       | 8       | 4         | 17.43                     | 17.43                     | 17.43                      |                          |             | 18.3 | 0 |  |  |
| 1.4                         | QPSK       | 8       | 8         | 17.39                     | 17.45                     | 17.39                      |                          |             |      |   |  |  |
| 1.4                         | HQAM       | 1       | 0         | 17.39                     | 17.45                     | 17.39                      |                          |             | 18.3 | 0 |  |  |
| 1.4                         | HQAM       | 1       | 8         | 17.34                     | 17.47                     | 17.38                      |                          |             |      |   |  |  |
| 1.4                         | HQAM       | 1       | 16        | 17.51                     | 17.51                     | 17.51                      |                          |             | 18.3 | 0 |  |  |
| 1.4                         | HQAM       | 8       | 0         | 17.22                     | 17.41                     | 17.33                      |                          |             |      |   |  |  |
| 1.4                         | HQAM       | 8       | 4         | 17.25                     | 17.38                     | 17.25                      |                          |             | 18.3 | 0 |  |  |
| 1.4                         | HQAM       | 8       | 8         | 17.39                     | 17.39                     | 17.39                      |                          |             |      |   |  |  |
| 1.4                         | HQAM       | 16      | 0         | 17.39                     | 17.29                     | 17.32                      |                          |             | 18.3 | 0 |  |  |
| 1.4                         | HQAM       | 16      | 4         | 17.47                     | 17.33                     | 17.40                      |                          |             |      |   |  |  |
| 1.4                         | HQAM       | 1       | 0         | 17.22                     | 17.36                     | 17.40                      |                          |             | 18.3 | 0 |  |  |
| 1.4                         | HQAM       | 1       | 8         | 17.22                     | 17.35                     | 17.40                      |                          |             |      |   |  |  |

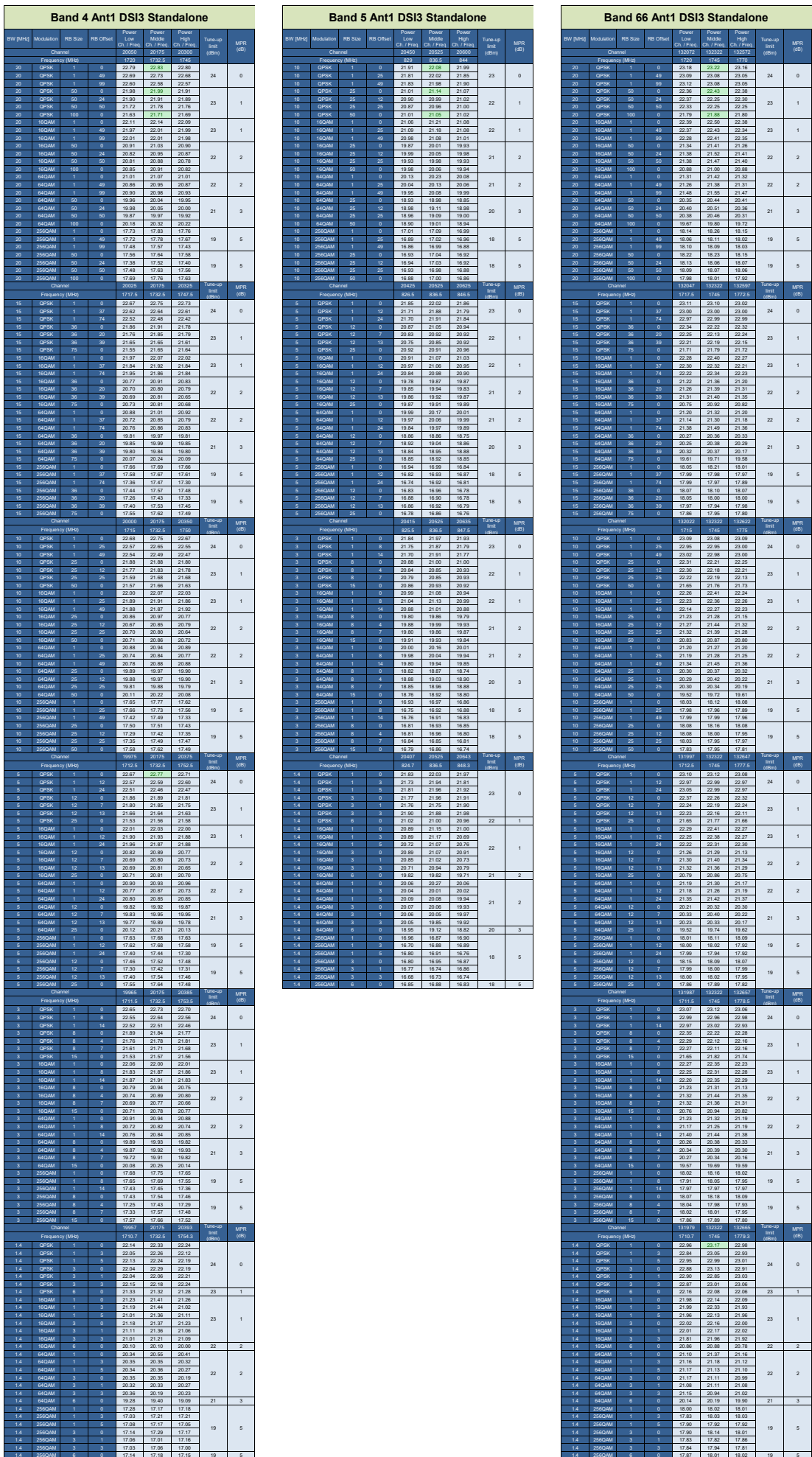
[illegible]

| Band 13 Ant0 DS13 Standalone |            |          |            |                        |                        |                        |                  |             |  |
|------------------------------|------------|----------|------------|------------------------|------------------------|------------------------|------------------|-------------|--|
| BS (MHz)                     | Modulation | RBs Size | RBs Offset | Power/PRB<br>(dBm/PRB) | Power/PRB<br>(dBm/PRB) | Power/PRB<br>(dBm/PRB) | Turn-up<br>(dBm) | MFR<br>(dB) |  |
| Channel 23030                |            |          |            |                        |                        |                        |                  |             |  |
| 5                            | OFDM       | 1        | 0          | 22.38                  | 22.38                  |                        |                  |             |  |
| 5                            | OFDM       | 1        | 26         | 22.34                  | 22.34                  |                        | 23.3             | 0           |  |
| 5                            | OFDM       | 1        | 49         | 22.38                  | 22.38                  |                        |                  |             |  |
| 5                            | OFDM       | 25       | 0          | 21.54                  | 21.54                  |                        |                  |             |  |
| 5                            | OFDM       | 26       | 12         | 21.48                  | 21.48                  |                        | 23               | 0.1         |  |
| 5                            | OFDM       | 26       | 38         | 21.48                  | 21.48                  |                        |                  |             |  |
| 5                            | OFDM       | 50       | 0          | 21.38                  | 21.38                  |                        |                  |             |  |
| 5                            | OFDM       | 1        | 26         | 21.78                  | 21.78                  |                        | 23               | 0.3         |  |
| 5                            | OFDM       | 1        | 49         | 21.59                  | 21.59                  |                        |                  |             |  |
| 5                            | OFDM       | 25       | 0          | 20.67                  | 20.67                  |                        |                  |             |  |
| 5                            | OFDM       | 26       | 12         | 20.68                  | 20.68                  |                        | 22               | 1.3         |  |
| 5                            | OFDM       | 26       | 38         | 20.45                  | 20.45                  |                        |                  |             |  |
| 5                            | OFDM       | 50       | 0          | 20.38                  | 20.38                  |                        |                  |             |  |
| 5                            | OFDM       | 1        | 26         | 20.62                  | 20.62                  |                        | 22               | 1.3         |  |
| 5                            | OFDM       | 1        | 49         | 20.67                  | 20.67                  |                        |                  |             |  |
| 5                            | OFDM       | 25       | 0          | 19.82                  | 19.82                  |                        |                  |             |  |
| 5                            | OFDM       | 26       | 12         | 19.54                  | 19.54                  |                        | 21               | 2.3         |  |
| 5                            | OFDM       | 26       | 38         | 19.63                  | 19.63                  |                        |                  |             |  |
| 5                            | OFDM       | 50       | 0          | 18.61                  | 18.61                  |                        |                  |             |  |
| 5                            | OFDM       | 1        | 26         | 17.55                  | 17.55                  |                        |                  |             |  |
| 5                            | OFDM       | 1        | 49         | 17.49                  | 17.49                  |                        | 19               | 4.3         |  |
| 5                            | OFDM       | 25       | 0          | 17.48                  | 17.48                  |                        |                  |             |  |
| 5                            | OFDM       | 26       | 12         | 17.45                  | 17.45                  |                        |                  |             |  |
| 5                            | OFDM       | 26       | 38         | 17.43                  | 17.43                  |                        | 19               | 4.3         |  |
| 5                            | OFDM       | 50       | 0          | 17.38                  | 17.38                  |                        |                  |             |  |
| 5                            | OFDM       | 1        | 26         | 17.41                  | 17.41                  |                        |                  |             |  |
| Channel 23035                |            |          |            |                        |                        |                        |                  |             |  |
| Channel 23035                |            |          |            |                        |                        |                        |                  |             |  |
| 5                            | OFDM       | 1        | 0          | 22.24                  | 22.24                  | 22.25                  |                  |             |  |
| 5                            | OFDM       | 1        | 12         | 22.22                  | 22.28                  | 22.25                  | 23.3             | 0           |  |
| 5                            | OFDM       | 1        | 26         | 22.08                  | 22.19                  | 22.02                  |                  |             |  |
| 5                            | OFDM       | 1        | 49         | 21.28                  | 21.48                  | 21.38                  |                  |             |  |
| 5                            | OFDM       | 12       | 7          | 21.30                  | 21.41                  | 21.28                  | 23               | 0.3         |  |
| 5                            | OFDM       | 12       | 19         | 21.26                  | 21.37                  | 21.13                  |                  |             |  |
| 5                            | OFDM       | 1        | 26         | 21.13                  | 21.29                  | 21.14                  |                  |             |  |
| 5                            | OFDM       | 1        | 49         | 21.67                  | 21.77                  | 21.68                  |                  |             |  |
| 5                            | OFDM       | 1        | 12         | 21.38                  | 21.49                  | 21.48                  | 23               | 0.2         |  |
| 5                            | OFDM       | 1        | 26         | 21.28                  | 21.41                  | 21.24                  |                  |             |  |
| 5                            | OFDM       | 12       | 8          | 20.44                  | 20.51                  | 20.49                  |                  |             |  |
| 5                            | OFDM       | 12       | 19         | 20.31                  | 20.36                  | 20.18                  | 22               | 1.3         |  |
| 5                            | OFDM       | 1        | 26         | 20.20                  | 20.38                  | 20.20                  |                  |             |  |
| 5                            | OFDM       | 25       | 0          | 20.16                  | 20.24                  | 20.15                  |                  |             |  |
| 5                            | OFDM       | 1        | 26         | 20.38                  | 20.51                  | 20.37                  |                  |             |  |
| 5                            | OFDM       | 1        | 12         | 20.44                  | 20.47                  | 20.37                  | 22               | 1.3         |  |
| 5                            | OFDM       | 1        | 24         | 20.39                  | 20.48                  | 20.43                  |                  |             |  |
| 5                            | OFDM       | 12       | 8          | 19.48                  | 19.53                  | 19.35                  |                  |             |  |
| 5                            | OFDM       | 12       | 19         | 19.40                  | 19.51                  | 19.35                  | 21               | 2.3         |  |
| 5                            | OFDM       | 12       | 18         | 19.22                  | 19.38                  | 19.26                  |                  |             |  |
| 5                            | OFDM       | 25       | 0          | 19.22                  | 19.35                  | 19.19                  |                  |             |  |
| 5                            | OFDM       | 1        | 26         | 19.45                  | 19.58                  | 19.41                  |                  |             |  |
| 5                            | OFDM       | 1        | 12         | 17.16                  | 17.32                  | 17.22                  | 19               | 4.3         |  |
| 5                            | OFDM       | 1        | 26         | 17.25                  | 17.42                  | 17.38                  |                  |             |  |
| 5                            | OFDM       | 12       | 19         | 17.24                  | 17.28                  | 17.13                  |                  |             |  |
| 5                            | OFDM       | 12       | 7          | 17.21                  | 17.32                  | 17.22                  | 19               | 4.3         |  |
| 5                            | OFDM       | 1        | 26         | 17.17                  | 17.21                  | 17.09                  |                  |             |  |
| 5                            | OFDM       | 25       | 0          | 17.15                  | 17.17                  | 17.14                  |                  |             |  |

| Band 17 Ant0 DS3 Standalone |            |          |            |                 |                 |                 |                 |               |          |
|-----------------------------|------------|----------|------------|-----------------|-----------------|-----------------|-----------------|---------------|----------|
| BM [MHz]                    | Modulation | PRB Size | PRB Offset | Power/PRB [dBm] | Power/PRB [dBm] | Power/PRB [dBm] | Power/PRB [dBm] | Turn-up (dBm) | MFR (dB) |
| Channel                     |            |          |            | 22780           | 22790           | 22800           | 22810           |               |          |
| Frequency [MHz]             |            |          |            | 71.1            |                 |                 |                 |               |          |
| 10                          | QPSK       | 1        | 0          | 22.82           | 22.08           | 22.08           | 22.08           |               |          |
| 10                          | QPSK       | 1        | 28         | 22.68           | 22.57           | 22.41           | 22.41           | 24            | 0        |
| 10                          | QPSK       | 1        | 56         | 22.54           | 22.43           | 22.28           | 22.28           |               |          |
| 10                          | QPSK       | 25       | 0          | 21.97           | 21.97           | 21.94           | 21.94           |               |          |
| 10                          | QPSK       | 26       | 12         | 21.86           | 21.84           | 21.69           | 21.69           | 23            | 1        |
| 10                          | QPSK       | 26       | 40         | 21.67           | 21.65           | 21.50           | 21.50           |               |          |
| 10                          | QPSK       | 56       | 0          | 21.48           | 21.54           | 21.41           | 21.41           |               |          |
| 10                          | 16QAM      | 1        | 0          | 21.58           | 21.78           | 21.64           | 21.64           |               |          |
| 10                          | 16QAM      | 1        | 28         | 21.43           | 21.63           | 21.50           | 21.50           | 23            | 1        |
| 10                          | 16QAM      | 1        | 40         | 21.41           | 21.05           | 21.02           | 21.02           |               |          |
| 10                          | 16QAM      | 25       | 0          | 20.57           | 20.46           | 20.31           | 20.31           |               |          |
| 10                          | 16QAM      | 25       | 28         | 20.51           | 20.40           | 20.26           | 20.26           | 22            | 2        |
| 10                          | 16QAM      | 25       | 25         | 20.45           | 20.00           | 19.95           | 19.95           |               |          |
| 10                          | 16QAM      | 56       | 0          | 20.42           | 20.41           | 20.39           | 20.39           |               |          |
| 10                          | 16QAM      | 56       | 28         | 20.37           | 20.37           | 20.31           | 20.31           |               |          |
| 10                          | 16QAM      | 1        | 28         | 20.52           | 20.70           | 20.65           | 20.65           |               |          |
| 10                          | 16QAM      | 1        | 40         | 20.56           | 20.83           | 20.81           | 20.81           |               |          |
| 10                          | 16QAM      | 1        | 56         | 20.51           | 20.88           | 20.75           | 20.75           |               |          |
| 10                          | 16QAM      | 25       | 12         | 19.82           | 19.83           | 19.83           | 19.83           | 21            | 1        |
| 10                          | 16QAM      | 25       | 25         | 19.61           | 19.81           | 19.64           | 19.64           |               |          |
| 10                          | 16QAM      | 25       | 40         | 19.76           | 19.69           | 19.69           | 19.69           | 19            | 5        |
| 10                          | 28QAM      | 1        | 0          | 17.61           | 17.71           | 17.71           | 17.71           |               |          |
| 10                          | 28QAM      | 1        | 28         | 17.64           | 17.60           | 17.37           | 17.37           | 19            | 5        |
| 10                          | 28QAM      | 1        | 40         | 17.47           | 17.48           | 17.30           | 17.30           |               |          |
| 10                          | 28QAM      | 26       | 0          | 17.54           | 17.67           | 17.67           | 17.67           |               |          |
| 10                          | 28QAM      | 26       | 12         | 17.54           | 17.69           | 17.63           | 17.63           |               |          |
| 10                          | 28QAM      | 26       | 40         | 17.51           | 17.49           | 17.28           | 17.28           | 19            | 5        |
| 10                          | 28QAM      | 56       | 0          | 17.31           | 17.42           | 17.42           | 17.42           |               |          |
| Channel                     |            |          |            | 22785           | 22795           | 22805           | 22815           |               |          |
| Frequency [MHz]             |            |          |            | 71.2            |                 |                 |                 |               |          |
| 5                           | QPSK       | 1        | 0          | 22.47           | 22.03           | 22.04           | 22.04           |               |          |
| 5                           | QPSK       | 1        | 12         | 22.56           | 22.41           | 22.21           | 22.21           | 24            | 0        |
| 5                           | QPSK       | 1        | 24         | 22.42           | 22.33           | 22.20           | 22.20           |               |          |
| 5                           | QPSK       | 12       | 0          | 21.84           | 21.47           | 21.47           | 21.47           |               |          |
| 5                           | QPSK       | 12       | 12         | 21.51           | 21.42           | 21.40           | 21.40           | 23            | 1        |
| 5                           | QPSK       | 12       | 24         | 21.39           | 21.28           | 21.41           | 21.41           |               |          |
| 5                           | QPSK       | 25       | 0          | 21.39           | 21.45           | 21.39           | 21.39           |               |          |
| 5                           | 16QAM      | 1        | 0          | 21.53           | 21.68           | 21.50           | 21.50           |               |          |
| 5                           | 16QAM      | 1        | 12         | 21.31           | 21.57           | 21.23           | 21.23           | 23            | 1        |
| 5                           | 16QAM      | 1        | 24         | 21.29           | 21.32           | 21.30           | 21.30           |               |          |
| 5                           | 16QAM      | 12       | 0          | 20.39           | 20.58           | 20.48           | 20.48           |               |          |
| 5                           | 16QAM      | 12       | 12         | 20.42           | 20.46           | 20.46           | 20.46           | 22            | 2        |
| 5                           | 16QAM      | 12       | 24         | 20.45           | 20.45           | 20.41           | 20.41           |               |          |
| 5                           | 16QAM      | 25       | 0          | 20.32           | 20.36           | 20.33           | 20.33           |               |          |
| 5                           | 16QAM      | 25       | 12         | 20.32           | 20.72           | 20.63           | 20.63           |               |          |
| 5                           | 16QAM      | 1        | 12         | 20.54           | 20.64           | 20.60           | 20.60           | 22            | 2        |
| 5                           | 16QAM      | 1        | 24         | 20.53           | 20.77           | 20.58           | 20.58           |               |          |
| 5                           | 16QAM      | 12       | 0          | 19.66           | 19.76           | 19.66           | 19.66           |               |          |
| 5                           | 16QAM      | 12       | 12         | 19.53           | 19.62           | 19.57           | 19.57           |               |          |
| 5                           | 16QAM      | 12       | 18         | 19.43           | 19.71           | 19.50           | 19.50           | 21            | 3        |
| 5                           | 16QAM      | 25       | 0          | 19.44           | 19.63           | 19.48           | 19.48           |               |          |
| 5                           | 16QAM      | 25       | 12         | 19.41           | 1.99            | 1.98            | 1.98            |               |          |
| 5                           | 28QAM      | 1        | 12         | 17.57           | 17.67           | 17.52           | 17.52           | 19            | 5        |
| 5                           | 28QAM      | 1        | 24         | 17.47           | 17.48           | 17.29           | 17.29           |               |          |
| 5                           | 28QAM      | 12       | 0          | 17.42           | 17.42           | 17.21           | 17.21           |               |          |
| 5                           | 28QAM      | 12       | 7          | 17.46           | 17.57           | 17.31           | 17.31           | 19            | 5        |
| 5                           | 28QAM      | 12       | 13         | 17.41           | 17.31           | 17.59           | 17.59           |               |          |
| 5                           | 28QAM      | 12       | 19         | 17.41           | 17.38           | 17.51           | 17.51           |               |          |



| Band 25 Ant0 DSI3 Standalone |            |         |           |                     |                     |                      |                    |          |  |  |
|------------------------------|------------|---------|-----------|---------------------|---------------------|----------------------|--------------------|----------|--|--|
| BW (MHz)                     | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Med Ch./Freq. | Power High Ch./Freq. | Turn-up time (sec) | MPE (dB) |  |  |
| Channel                      |            |         |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz)              |            |         |           |                     |                     |                      |                    |          |  |  |
| 20                           | QPSK       | 1       | 0         | 17.73               | 17.81               | 17.76                |                    |          |  |  |
| 20                           | QPSK       | 1       | 49        | 17.66               | 17.70               | 17.68                | 18.3               | 0        |  |  |
| 20                           | QPSK       | 1       | 99        | 17.72               | 17.84               | 17.76                |                    |          |  |  |
| 20                           | QPSK       | 50      | 0         | 17.61               | 17.72               | 17.67                |                    |          |  |  |
| 20                           | QPSK       | 50      | 24        | 17.65               | 17.63               | 17.62                | 18.3               | 0        |  |  |
| 20                           | QPSK       | 50      | 50        | 17.68               | 17.55               | 17.62                |                    |          |  |  |
| 20                           | QPSK       | 100     | 0         | 17.59               | 17.61               | 17.64                |                    |          |  |  |
| 20                           | 16QAM      | 1       | 0         | 17.61               | 17.63               | 17.62                |                    |          |  |  |
| 20                           | 16QAM      | 1       | 49        | 17.45               | 17.66               | 17.54                | 18.3               | 0        |  |  |
| 20                           | 16QAM      | 1       | 99        | 17.71               | 17.80               | 17.57                |                    |          |  |  |
| 20                           | 16QAM      | 50      | 0         | 17.44               | 17.64               | 17.52                |                    |          |  |  |
| 20                           | 16QAM      | 50      | 24        | 17.38               | 17.57               | 17.43                | 18.3               | 0        |  |  |
| 20                           | 16QAM      | 50      | 50        | 17.50               | 17.49               | 17.44                |                    |          |  |  |
| 20                           | 16QAM      | 100     | 0         | 17.54               | 17.43               | 17.58                |                    |          |  |  |
| 20                           | 64QAM      | 1       | 0         | 17.61               | 17.47               | 17.52                |                    |          |  |  |
| 20                           | 64QAM      | 1       | 49        | 17.53               | 17.61               | 17.49                | 18.3               | 0        |  |  |
| 20                           | 64QAM      | 50      | 0         | 17.60               | 17.57               | 17.59                |                    |          |  |  |
| 20                           | 64QAM      | 50      | 0         | 17.40               | 17.47               | 17.59                |                    |          |  |  |
| 20                           | 64QAM      | 50      | 24        | 17.34               | 17.36               | 17.31                | 18.3               | 0        |  |  |
| 20                           | 64QAM      | 50      | 25        | 17.49               | 17.34               | 17.45                |                    |          |  |  |
| 20                           | 64QAM      | 100     | 0         | 17.56               | 17.36               | 17.49                |                    |          |  |  |
| 20                           | 256QAM     | 1       | 49        | 17.13               | 17.25               | 17.13                | 18.3               | 0        |  |  |
| 20                           | 256QAM     | 1       | 99        | 17.23               | 17.18               | 17.23                |                    |          |  |  |
| 20                           | 256QAM     | 50      | 25        | 17.26               | 17.20               | 17.23                |                    |          |  |  |
| 20                           | 256QAM     | 50      | 24        | 17.12               | 17.20               | 17.13                | 18.3               | 0        |  |  |
| 20                           | 256QAM     | 50      | 50        | 17.25               | 17.15               | 17.21                |                    |          |  |  |
| 20                           | 256QAM     | 100     | 0         | 17.16               | 17.16               | 17.16                |                    |          |  |  |
| Channel                      |            |         |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz)              |            |         |           |                     |                     |                      |                    |          |  |  |
| 15                           | QPSK       | 1       | 0         | 18.07               | 17.80               | 17.80                | 18.07              | 5        |  |  |
| 15                           | QPSK       | 1       | 0         | 17.65               | 17.64               | 17.65                |                    |          |  |  |
| 15                           | QPSK       | 1       | 37        | 17.49               | 17.52               | 17.49                | 18.3               | 0        |  |  |
| 15                           | QPSK       | 1       | 74        | 17.65               | 17.47               | 17.59                |                    |          |  |  |
| 15                           | QPSK       | 36      | 0         | 17.60               | 17.64               | 17.54                |                    |          |  |  |
| 15                           | QPSK       | 36      | 0         | 17.43               | 17.50               | 17.49                |                    |          |  |  |
| 15                           | QPSK       | 36      | 36        | 17.44               | 17.40               | 17.59                | 18.3               | 0        |  |  |
| 15                           | QPSK       | 75      | 0         | 17.47               | 17.47               | 17.47                |                    |          |  |  |
| 15                           | 16QAM      | 1       | 0         | 17.57               | 17.51               | 17.54                |                    |          |  |  |
| 15                           | 16QAM      | 1       | 37        | 17.29               | 17.54               | 17.45                | 18.3               | 0        |  |  |
| 15                           | 16QAM      | 1       | 49        | 17.67               | 17.56               | 17.59                |                    |          |  |  |
| 15                           | 16QAM      | 36      | 20        | 17.35               | 17.45               | 17.32                | 18.3               | 0        |  |  |
| 15                           | 16QAM      | 36      | 39        | 17.37               | 17.36               | 17.35                |                    |          |  |  |
| 15                           | 16QAM      | 75      | 0         | 17.46               | 17.37               | 17.48                |                    |          |  |  |
| 15                           | 64QAM      | 1       | 0         | 17.48               | 17.42               | 17.45                |                    |          |  |  |
| 15                           | 64QAM      | 1       | 37        | 17.18               | 17.47               | 17.31                | 18.3               | 0        |  |  |
| 15                           | 64QAM      | 1       | 74        | 17.49               | 17.40               | 17.50                |                    |          |  |  |
| 15                           | 64QAM      | 36      | 0         | 17.29               | 17.40               | 17.58                |                    |          |  |  |
| 15                           | 64QAM      | 36      | 20        | 17.37               | 17.36               | 17.35                | 18.3               | 0        |  |  |
| 15                           | 64QAM      | 36      | 39        | 17.34               | 17.20               | 17.31                |                    |          |  |  |
| 15                           | 64QAM      | 75      | 0         | 17.43               | 17.33               | 17.51                |                    |          |  |  |
| 15                           | 64QAM      | 50      | 0         | 17.43               | 17.25               | 17.53                |                    |          |  |  |
| 15                           | 64QAM      | 50      | 0         | 17.43               | 17.25               | 17.53                |                    |          |  |  |
| 15                           | 64QAM      | 50      | 0         | 17.43               | 17.25               | 17.53                |                    |          |  |  |
| 15                           | 64QAM      | 50      | 0         | 17.43               | 17.25               | 17.53                |                    |          |  |  |
| 15                           | 64QAM      | 50      | 0         | 17.43               | 17.25               | 17.53                |                    |          |  |  |
| 15                           | 256QAM     | 1       | 37        | 17.07               | 17.12               | 17.07                | 18.3               | 0        |  |  |
| 15                           | 256QAM     | 1       | 74        | 17.14               | 17.11               | 17.16                |                    |          |  |  |
| 15                           | 256QAM     | 36      | 20        | 17.18               | 17.20               | 17.17                |                    |          |  |  |
| 15                           | 256QAM     | 36      | 20        | 17.02               | 17.08               | 17.05                | 18.3               | 0        |  |  |
| 15                           | 256QAM     | 36      | 39        | 17.17               | 17.04               | 17.13                |                    |          |  |  |
| 15                           | 256QAM     | 75      | 0         | 17.16               | 17.11               | 17.08                |                    |          |  |  |
| Channel                      |            |         |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz)              |            |         |           |                     |                     |                      |                    |          |  |  |
| 10                           | QPSK       | 1       | 0         | 17.69               | 17.69               | 17.69                |                    |          |  |  |
| 10                           | QPSK       | 1       | 25        | 17.49               | 17.57               | 17.58                | 18.3               | 0        |  |  |
| 10                           | QPSK       | 1       | 49        | 17.66               | 17.47               | 17.58                |                    |          |  |  |
| 10                           | QPSK       | 25      | 0         | 17.66               | 17.49               | 17.58                |                    |          |  |  |
| 10                           | QPSK       | 25      | 12        | 17.33               | 17.56               | 17.43                | 18.3               | 0        |  |  |
| 10                           | QPSK       | 25      | 25        | 17.47               | 17.47               | 17.48                |                    |          |  |  |
| 10                           | QPSK       | 100     | 0         | 17.45               | 17.56               | 17.50                |                    |          |  |  |
| 10                           | 16QAM      | 1       | 0         | 17.58               | 17.58               | 17.54                |                    |          |  |  |
| 10                           | 16QAM      | 1       | 25        | 17.30               | 17.54               | 17.45                | 18.3               | 0        |  |  |
| 10                           | 16QAM      | 1       | 49        | 17.67               | 17.48               | 17.59                |                    |          |  |  |
| 10                           | 16QAM      | 25      | 0         | 17.35               | 17.53               | 17.50                |                    |          |  |  |
| 10                           | 16QAM      | 25      | 12        | 17.21               | 17.40               | 17.40                | 18.3               | 0        |  |  |
| 10                           | 16QAM      | 25      | 12        | 17.15               | 17.38               | 17.35                |                    |          |  |  |
| 10                           | 16QAM      | 50      | 0         | 17.42               | 17.34               | 17.49                |                    |          |  |  |
| 10                           | 64QAM      | 1       | 0         | 17.38               | 17.41               | 17.36                |                    |          |  |  |
| 10                           | 64QAM      | 1       | 25        | 17.02               | 17.11               | 17.08                | 18.3               | 0        |  |  |
| 10                           | 64QAM      | 1       | 49        | 17.43               | 17.55               | 17.45                |                    |          |  |  |
| 10                           | 64QAM      | 25      | 0         | 17.33               | 17.44               | 17.58                |                    |          |  |  |
| 10                           | 64QAM      | 25      | 12        | 17.21               | 17.42               | 17.42                |                    |          |  |  |
| 10                           | 64QAM      | 25      | 25        | 17.40               | 17.28               | 17.37                | 18.3               | 0        |  |  |
| 10                           | 64QAM      | 50      | 0         | 17.40               | 17.27               | 17.41                |                    |          |  |  |
| 10                           | 256QAM     | 1       | 25        | 17.10               | 17.22               | 17.15                |                    |          |  |  |
| 10                           | 256QAM     | 1       | 25        | 17.06               | 17.14               | 17.06                | 18.3               | 0        |  |  |
| 10                           | 256QAM     | 1       | 49        | 17.13               | 17.05               | 17.06                |                    |          |  |  |
| 10                           | 256QAM     | 25      | 25        | 17.13               | 17.09               | 17.14                |                    |          |  |  |
| 10                           | 256QAM     | 50      | 0         | 17.03               | 17.13               | 17.07                |                    |          |  |  |
| Channel                      |            |         |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz)              |            |         |           |                     |                     |                      |                    |          |  |  |
| 5                            | QPSK       | 1       | 0         | 17.67               | 17.65               | 17.65                |                    |          |  |  |
| 5                            | QPSK       | 1       | 12        | 17.55               | 17.55               | 17.53                | 18.3               | 0        |  |  |
| 5                            | QPSK       | 1       | 24        | 17.61               | 17.52               | 17.63                |                    |          |  |  |
| 5                            | QPSK       | 12      | 0         | 17.45               | 17.54               | 17.49                |                    |          |  |  |
| 5                            | QPSK       | 12      | 7         | 17.41               | 17.57               | 17.47                | 18.3               | 0        |  |  |
| 5                            | QPSK       | 12      | 13        | 17.46               | 17.52               | 17.55                |                    |          |  |  |
| 5                            | QPSK       | 36      | 0         | 17.46               | 17.56               | 17.50                |                    |          |  |  |
| 5                            | 16QAM      | 1       | 0         | 17.58               | 17.52               | 17.47                |                    |          |  |  |
| 5                            | 16QAM      | 1       | 12        | 17.38               | 17.54               | 17.49                | 18.3               | 0        |  |  |
| 5                            | 16QAM      | 1       | 24        | 17.58               | 17.45               | 17.59                |                    |          |  |  |
| 5                            | 16QAM      | 12      | 0         | 17.29               | 17.49               | 17.68                |                    |          |  |  |
| 5                            | 16QAM      | 12      | 7         | 17.28               | 17.41               | 17.37                | 18.3               | 0        |  |  |
| 5                            | 16QAM      | 12      | 13        | 17.42               | 17.38               | 17.35                |                    |          |  |  |
| 5                            | 16QAM      | 25      | 0         | 17.38               | 17.36               | 17.40                |                    |          |  |  |
| 5                            | 64QAM      | 1       | 0         | 17.39               | 17.37               | 17.41                |                    |          |  |  |
| 5                            | 64QAM      | 1       | 12        | 17.16               | 17.53               | 17.48                | 18.3               | 0        |  |  |
| 5                            | 64QAM      | 1       | 24        | 17.46               | 17.50               | 17.50                |                    |          |  |  |
| 5                            | 64QAM      | 12      | 0         | 17.35               | 17.31               | 17.60                |                    |          |  |  |
| 5                            | 64QAM      | 12      | 7         | 17.29               | 17.46               | 17.35                | 18.3               | 0        |  |  |
| 5                            | 64QAM      | 12      | 13        | 17.36               | 17.30               | 17.27                |                    |          |  |  |
| 5                            | 64QAM      | 25      | 0         | 17.40               | 17.28               | 17.34                |                    |          |  |  |
| 5                            | 256QAM     | 1       | 0         | 17.11               | 17.24               | 17.22                |                    |          |  |  |
| 5                            | 256QAM     | 1       | 12        | 17.01               | 17.19               | 17.06                | 18.3               | 0        |  |  |
| 5                            | 256QAM     | 1       | 24        | 17.10               | 17.10               | 17.14                |                    |          |  |  |
| 5                            | 256QAM     | 12      | 0         | 17.17               | 17.22               | 17.24                |                    |          |  |  |
| 5                            | 256QAM     | 12      | 7         | 17.04               | 17.15               | 17.01                | 18.3               | 0        |  |  |
| 5                            | 256QAM     | 12      | 13        | 17.14               | 17.08               | 17.13                |                    |          |  |  |
| 5                            | 256QAM     | 25      | 0         | 17.10               | 17.08               | 17.06                |                    |          |  |  |
| Channel                      |            |         |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz)              |            |         |           |                     |                     |                      |                    |          |  |  |
| 3                            | QPSK       | 1       | 0         | 17.66               | 17.70               | 17.71                |                    |          |  |  |
| 3                            | QPSK       | 1       | 8         | 17.63               | 17.57               | 17.58                | 18.3               | 0        |  |  |
| 3                            | QPSK       | 1       | 14        | 17.68               | 17.56               | 17.63                |                    |          |  |  |
| 3                            | QPSK       | 8       | 0         | 17.57               | 17.68               | 17.61                |                    |          |  |  |
| 3                            | QPSK       | 8       | 4         | 17.43               | 17.45               | 17.41                | 18.3               | 0        |  |  |
| 3                            | QPSK       | 8       | 7         | 17.54               | 17.38               | 17.45                |                    |          |  |  |
| 3                            | QPSK       | 16      | 0         | 17.42               | 17.45               | 17.37                |                    |          |  |  |
| 3                            | 16QAM      | 1       | 0         | 17.54               | 17.56               | 17.46                |                    |          |  |  |
| 3                            | 16QAM      | 1       | 8         | 17.30               | 17.51               | 17.52                | 18.3               | 0        |  |  |
| 3                            | 16QAM      | 1       | 14        | 17.64               | 17.51               | 17.52                |                    |          |  |  |
| 3                            | 16QAM      | 8       | 0         | 17.40               | 17.54               | 17.55                |                    |          |  |  |
| 3                            | 16QAM      | 8       | 4         | 17.23               | 17.47               | 17.36                | 18.3               | 0        |  |  |
| 3                            | 16QAM      | 1       | 8         | 17.45               | 17.42               | 17.33                |                    |          |  |  |
| 3                            | 16QAM      | 16      | 0         | 17.45               | 17.33               | 17.54                |                    |          |  |  |
| 3                            | 64QAM      | 1       | 0         | 17.48               | 17.43               | 17.39                |                    |          |  |  |
| 3                            | 64QAM      | 1       | 8         | 17.18               | 17.55               | 17.36                | 18.3               | 0        |  |  |
| 3                            | 64QAM      | 1       | 14        | 17.52               | 17.41               | 17.45                |                    |          |  |  |
| 3                            | 64QAM      | 8       | 0         | 17.34               | 17.39               | 17.64                |                    |          |  |  |
| 3                            | 64QAM      | 8       | 7         | 17.30               | 17.48               | 17.23                | 18.3               | 0        |  |  |
| 3                            | 64QAM      | 8       | 7         | 17.45               | 17.29               | 17.28                |                    |          |  |  |
| 3                            | 256QAM     | 1       | 0         | 17.09               | 17.23               | 17.18                |                    |          |  |  |
| 3                            | 256QAM     | 1       | 8         | 17.05               | 17.10               | 17.00                | 18.3               | 0        |  |  |
| 3                            | 256QAM     | 1       | 14        | 17.18               | 17.09               | 17.14                |                    |          |  |  |
| 3                            | 256QAM     | 8       | 0         | 17.17               | 17.16               | 17.19                |                    |          |  |  |
| 3                            | 256QAM     | 15      | 0         | 17.10               | 17.11               | 17.15                |                    |          |  |  |
| Channel                      |            |         |           |                     |                     |                      |                    |          |  |  |
| Frequency (MHz)              |            |         |           |                     |                     |                      |                    |          |  |  |
| 1.4                          | QPSK       | 1       | 0         | 18.07               | 17.80               | 17.80                | 18.07              | 5        |  |  |
| 1.4                          | QPSK       | 1       | 0         | 17.65               | 17.68               | 17.73                |                    |          |  |  |
| 1.4                          | QPSK       | 1       | 0         | 17.65               | 17.68               | 17.73                |                    |          |  |  |
| 1.4                          | QPSK       | 1       | 5         | 17.57               | 17.55               | 17.56                | 18.3               | 0        |  |  |
| 1.4                          | QPSK       | 3       | 0         | 17.54               | 17.62               | 17.53                |                    |          |  |  |
| 1.4                          | QPSK       | 3       | 0         | 17.54               | 17.62               | 17.53                |                    |          |  |  |
| 1.4                          | QPSK       | 3       | 3         | 17.50               | 17.38               | 17.51                |                    |          |  |  |
| 1.4                          | QPSK       | 3       | 3         | 17.50               | 17.58               | 17.59                | 18.3               | 0        |  |  |
| 1.4                          | QPSK       | 3       | 3         | 17.50               | 17.58               | 17.59                |                    |          |  |  |
| 1.4                          | 16QAM      | 1       | 3         | 17.34               | 17.54               | 17.37                | 18.3               | 0        |  |  |
| 1.4                          | 16QAM      | 1       | 5         | 17.61               | 17.50               | 17.49                |                    |          |  |  |
| 1.4                          | 16QAM      | 1       | 5         | 17.61               | 17.50               | 17.49                |                    |          |  |  |
| 1                            |            |         |           |                     |                     |                      |                    |          |  |  |





| Band 38 Ant1 DS13 Standalone |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
|------------------------------|------------|---------|-----------|---------------------|----------------------|----------------------|---------------------|----------|--|--|--|--|
| BW [MHz]                     | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Main Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPE (dB) |  |  |  |  |
| Channel                      |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| Frequency (MHz)              |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 38760 38900 38150            |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 20                           | QPSK       | 1       | 0         | 19.52               | 19.52                | 19.41                | 20.4                | 0        |  |  |  |  |
| 20                           | QPSK       | 1       | 48        | 19.34               | 19.39                | 19.28                |                     |          |  |  |  |  |
| 20                           | QPSK       | 1       | 96        | 19.36               | 19.41                | 19.36                |                     |          |  |  |  |  |
| 20                           | QPSK       | 50      | 0         | 19.33               | 19.30                | 19.32                |                     |          |  |  |  |  |
| 20                           | QPSK       | 50      | 24        | 19.34               | 19.38                | 19.34                | 20.4                | 0        |  |  |  |  |
| 20                           | QPSK       | 50      | 48        | 19.32               | 19.35                | 19.38                |                     |          |  |  |  |  |
| 20                           | QPSK       | 100     | 0         | 19.30               | 19.33                | 19.37                |                     |          |  |  |  |  |
| 20                           | 16QAM      | 1       | 0         | 19.26               | 19.43                | 19.31                |                     |          |  |  |  |  |
| 20                           | 16QAM      | 1       | 48        | 19.31               | 19.29                | 19.27                | 20.4                | 0        |  |  |  |  |
| 20                           | 16QAM      | 1       | 96        | 19.36               | 19.31                | 19.13                |                     |          |  |  |  |  |
| 20                           | 16QAM      | 50      | 0         | 19.17               | 19.24                | 19.40                |                     |          |  |  |  |  |
| 20                           | 16QAM      | 50      | 24        | 19.02               | 19.18                | 19.29                |                     |          |  |  |  |  |
| 20                           | 16QAM      | 50      | 50        | 19.06               | 19.07                | 19.20                | 20.4                | 0        |  |  |  |  |
| 20                           | 16QAM      | 100     | 0         | 19.05               | 19.12                | 19.26                |                     |          |  |  |  |  |
| 20                           | 64QAM      | 1       | 0         | 19.34               | 19.85                | 19.07                |                     |          |  |  |  |  |
| 20                           | 64QAM      | 1       | 48        | 18.88               | 18.91                | 19.02                |                     |          |  |  |  |  |
| 20                           | 64QAM      | 1       | 96        | 19.36               | 19.92                | 19.36                | 20.4                | 0        |  |  |  |  |
| 20                           | 64QAM      | 50      | 0         | 19.37               | 19.34                | 19.38                |                     |          |  |  |  |  |
| 20                           | 64QAM      | 50      | 24        | 19.22               | 19.32                | 19.24                |                     |          |  |  |  |  |
| 20                           | 64QAM      | 50      | 50        | 19.31               | 19.31                | 19.20                |                     |          |  |  |  |  |
| 20                           | 64QAM      | 100     | 0         | 19.31               | 19.33                | 19.32                | 19                  | 1.4      |  |  |  |  |
| 20                           | 256QAM     | 1       | 0         | 17.37               | 17.42                | 17.40                |                     |          |  |  |  |  |
| 20                           | 256QAM     | 1       | 48        | 17.24               | 17.31                | 17.16                |                     |          |  |  |  |  |
| 20                           | 256QAM     | 1       | 96        | 17.23               | 17.24                | 17.14                |                     |          |  |  |  |  |
| 20                           | 256QAM     | 50      | 0         | 17.26               | 17.36                | 17.46                | 19                  | 1.4      |  |  |  |  |
| 20                           | 256QAM     | 50      | 24        | 17.20               | 17.35                | 17.18                |                     |          |  |  |  |  |
| 20                           | 256QAM     | 50      | 50        | 17.22               | 17.28                | 17.18                |                     |          |  |  |  |  |
| 20                           | 256QAM     | 100     | 0         | 17.23               | 17.29                | 17.17                |                     |          |  |  |  |  |
| Channel                      |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 38760 38900 38175            |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| Frequency (MHz)              |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 38760 38900 38175            |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 15                           | QPSK       | 1       | 0         | 19.42               | 19.42                | 19.29                | 20.4                | 0        |  |  |  |  |
| 15                           | QPSK       | 1       | 37        | 19.33               | 19.45                | 19.25                |                     |          |  |  |  |  |
| 15                           | QPSK       | 1       | 74        | 19.20               | 19.38                | 19.37                |                     |          |  |  |  |  |
| 15                           | QPSK       | 36      | 0         | 19.30               | 19.38                | 19.34                |                     |          |  |  |  |  |
| 15                           | QPSK       | 36      | 20        | 19.25               | 19.26                | 19.23                | 20.4                | 0        |  |  |  |  |
| 15                           | QPSK       | 36      | 40        | 19.48               | 19.58                | 19.48                |                     |          |  |  |  |  |
| 15                           | QPSK       | 75      | 0         | 19.25               | 19.15                | 19.00                |                     |          |  |  |  |  |
| 15                           | 16QAM      | 1       | 0         | 19.20               | 19.26                | 19.22                |                     |          |  |  |  |  |
| 15                           | 16QAM      | 1       | 37        | 19.23               | 19.23                | 19.23                | 20.4                | 0        |  |  |  |  |
| 15                           | 16QAM      | 1       | 74        | 19.28               | 19.18                | 19.11                |                     |          |  |  |  |  |
| 15                           | 16QAM      | 36      | 0         | 19.20               | 19.29                | 19.37                |                     |          |  |  |  |  |
| 15                           | 16QAM      | 36      | 20        | 19.06               | 19.05                | 19.31                |                     |          |  |  |  |  |
| 15                           | 16QAM      | 36      | 36        | 19.07               | 18.94                | 19.15                | 20.4                | 0        |  |  |  |  |
| 15                           | 16QAM      | 75      | 0         | 19.14               | 19.22                | 19.05                |                     |          |  |  |  |  |
| 15                           | 64QAM      | 1       | 0         | 19.84               | 19.80                | 19.00                |                     |          |  |  |  |  |
| 15                           | 64QAM      | 1       | 37        | 18.75               | 18.88                | 18.97                |                     |          |  |  |  |  |
| 15                           | 64QAM      | 1       | 74        | 18.86               | 18.92                | 18.77                | 20.4                | 0        |  |  |  |  |
| 15                           | 64QAM      | 36      | 0         | 19.30               | 19.45                | 19.33                |                     |          |  |  |  |  |
| 15                           | 64QAM      | 36      | 20        | 19.25               | 19.27                | 19.26                |                     |          |  |  |  |  |
| 15                           | 64QAM      | 75      | 0         | 19.25               | 19.25                | 19.30                |                     |          |  |  |  |  |
| 15                           | 256QAM     | 1       | 0         | 17.29               | 17.28                | 17.28                | 19                  | 1.4      |  |  |  |  |
| 15                           | 256QAM     | 1       | 37        | 17.17               | 17.21                | 17.03                |                     |          |  |  |  |  |
| 15                           | 256QAM     | 1       | 74        | 17.08               | 17.18                | 17.07                |                     |          |  |  |  |  |
| 15                           | 256QAM     | 36      | 0         | 17.22               | 17.30                | 17.31                |                     |          |  |  |  |  |
| 15                           | 256QAM     | 36      | 20        | 17.08               | 17.25                | 17.05                | 19                  | 1.4      |  |  |  |  |
| 15                           | 256QAM     | 36      | 36        | 17.13               | 17.14                | 17.06                |                     |          |  |  |  |  |
| 15                           | 256QAM     | 75      | 0         | 17.17               | 17.19                | 17.06                |                     |          |  |  |  |  |
| Channel                      |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 38760 38900 38175            |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| Frequency (MHz)              |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 38760 38900 38175            |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 10                           | QPSK       | 1       | 0         | 19.40               | 19.41                | 19.40                | 20.4                | 0        |  |  |  |  |
| 10                           | QPSK       | 1       | 25        | 19.32               | 19.33                | 19.30                |                     |          |  |  |  |  |
| 10                           | QPSK       | 1       | 48        | 19.32               | 19.40                | 19.24                |                     |          |  |  |  |  |
| 10                           | QPSK       | 25      | 0         | 19.36               | 19.28                | 19.28                |                     |          |  |  |  |  |
| 10                           | QPSK       | 25      | 12        | 19.29               | 19.35                | 19.33                | 20.4                | 0        |  |  |  |  |
| 10                           | QPSK       | 25      | 25        | 19.34               | 19.19                | 19.03                |                     |          |  |  |  |  |
| 10                           | QPSK       | 50      | 0         | 19.13               | 19.23                | 19.03                |                     |          |  |  |  |  |
| 10                           | 16QAM      | 1       | 0         | 19.08               | 19.30                | 19.28                |                     |          |  |  |  |  |
| 10                           | 16QAM      | 1       | 25        | 19.21               | 19.23                | 19.33                | 20.4                | 0        |  |  |  |  |
| 10                           | 16QAM      | 1       | 48        | 19.30               | 19.11                | 19.13                |                     |          |  |  |  |  |
| 10                           | 16QAM      | 25      | 0         | 19.14               | 19.25                | 19.30                |                     |          |  |  |  |  |
| 10                           | 16QAM      | 25      | 12        | 19.08               | 19.02                | 19.25                |                     |          |  |  |  |  |
| 10                           | 16QAM      | 25      | 25        | 19.09               | 19.07                | 19.08                | 20.4                | 0        |  |  |  |  |
| 10                           | 16QAM      | 50      | 0         | 19.14               | 19.83                | 19.87                |                     |          |  |  |  |  |
| 10                           | 64QAM      | 1       | 0         | 19.81               | 19.92                | 19.87                |                     |          |  |  |  |  |
| 10                           | 64QAM      | 1       | 48        | 18.86               | 18.96                | 18.90                |                     |          |  |  |  |  |
| 10                           | 64QAM      | 25      | 0         | 19.30               | 19.35                | 19.24                | 20.4                | 0        |  |  |  |  |
| 10                           | 64QAM      | 25      | 12        | 19.23               | 19.19                | 19.25                |                     |          |  |  |  |  |
| 10                           | 64QAM      | 25      | 25        | 19.24               | 19.27                | 19.29                |                     |          |  |  |  |  |
| 10                           | 64QAM      | 50      | 0         | 19.23               | 19.23                | 19.39                |                     |          |  |  |  |  |
| 10                           | 256QAM     | 1       | 0         | 17.29               | 17.35                | 17.27                | 19                  | 1.4      |  |  |  |  |
| 10                           | 256QAM     | 1       | 25        | 17.10               | 17.20                | 17.10                |                     |          |  |  |  |  |
| 10                           | 256QAM     | 1       | 48        | 17.10               | 17.18                | 17.03                |                     |          |  |  |  |  |
| 10                           | 256QAM     | 25      | 0         | 17.26               | 17.29                | 17.27                |                     |          |  |  |  |  |
| 10                           | 256QAM     | 25      | 12        | 17.09               | 17.20                | 17.04                | 19                  | 1.4      |  |  |  |  |
| 10                           | 256QAM     | 25      | 25        | 17.14               | 17.23                | 17.12                |                     |          |  |  |  |  |
| 10                           | 256QAM     | 50      | 0         | 17.18               | 17.21                | 17.03                |                     |          |  |  |  |  |
| Channel                      |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 38760 38900 38175            |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| Frequency (MHz)              |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 38760 38900 38175            |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 5                            | QPSK       | 1       | 0         | 19.50               | 19.47                | 19.37                | 20.4                | 0        |  |  |  |  |
| 5                            | QPSK       | 1       | 12        | 19.25               | 19.41                | 19.32                |                     |          |  |  |  |  |
| 5                            | QPSK       | 1       | 24        | 19.30               | 19.36                | 19.26                |                     |          |  |  |  |  |
| 5                            | QPSK       | 12      | 0         | 19.24               | 19.29                | 19.24                |                     |          |  |  |  |  |
| 5                            | QPSK       | 12      | 7         | 19.21               | 19.36                | 19.26                | 20.4                | 0        |  |  |  |  |
| 5                            | QPSK       | 12      | 19        | 19.25               | 19.19                | 19.07                |                     |          |  |  |  |  |
| 5                            | QPSK       | 25      | 0         | 19.15               | 19.29                | 19.09                |                     |          |  |  |  |  |
| 5                            | 16QAM      | 1       | 0         | 19.12               | 19.27                | 19.35                |                     |          |  |  |  |  |
| 5                            | 16QAM      | 1       | 12        | 19.23               | 19.14                | 19.28                | 20.4                | 0        |  |  |  |  |
| 5                            | 16QAM      | 1       | 24        | 19.30               | 19.23                | 19.06                |                     |          |  |  |  |  |
| 5                            | 16QAM      | 12      | 0         | 19.12               | 19.30                | 19.32                |                     |          |  |  |  |  |
| 5                            | 16QAM      | 12      | 7         | 19.00               | 19.02                | 19.27                |                     |          |  |  |  |  |
| 5                            | 16QAM      | 12      | 13        | 19.00               | 19.05                | 19.12                | 20.4                | 0        |  |  |  |  |
| 5                            | 16QAM      | 25      | 0         | 19.23               | 19.15                | 19.02                |                     |          |  |  |  |  |
| 5                            | 64QAM      | 1       | 0         | 18.75               | 18.92                | 19.03                |                     |          |  |  |  |  |
| 5                            | 64QAM      | 1       | 12        | 18.83               | 18.83                | 18.91                |                     |          |  |  |  |  |
| 5                            | 64QAM      | 1       | 24        | 18.91               | 18.94                | 18.81                | 20.4                | 0        |  |  |  |  |
| 5                            | 64QAM      | 12      | 0         | 19.25               | 19.36                | 19.25                |                     |          |  |  |  |  |
| 5                            | 64QAM      | 12      | 7         | 19.17               | 19.25                | 19.23                |                     |          |  |  |  |  |
| 5                            | 64QAM      | 12      | 13        | 19.30               | 19.34                | 19.17                |                     |          |  |  |  |  |
| 5                            | 64QAM      | 25      | 0         | 19.38               | 19.38                | 19.07                | 19                  | 1.4      |  |  |  |  |
| 5                            | 256QAM     | 1       | 0         | 17.24               | 17.29                | 17.19                |                     |          |  |  |  |  |
| 5                            | 256QAM     | 1       | 12        | 17.03               | 17.12                | 17.00                |                     |          |  |  |  |  |
| 5                            | 256QAM     | 1       | 24        | 17.03               | 17.07                | 17.05                |                     |          |  |  |  |  |
| 5                            | 256QAM     | 12      | 0         | 17.18               | 17.17                | 17.20                | 19                  | 1.4      |  |  |  |  |
| 5                            | 256QAM     | 12      | 7         | 17.13               | 17.17                | 17.12                |                     |          |  |  |  |  |
| 5                            | 256QAM     | 12      | 13        | 17.26               | 17.18                | 17.06                |                     |          |  |  |  |  |
| 5                            | 256QAM     | 25      | 0         | 17.12               | 17.15                | 17.11                |                     |          |  |  |  |  |

| Band 41 Ant1 DS13 Standalone |            |         |           |                     |                      |                      |                     |                      |                      |                     |          |
|------------------------------|------------|---------|-----------|---------------------|----------------------|----------------------|---------------------|----------------------|----------------------|---------------------|----------|
| BW [MHz]                     | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Main Ch / Freq | Power High Ch / Freq | Power Low Ch / Freq | Power Main Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPE (dB) |
| Channel                      |            |         |           |                     |                      |                      |                     |                      |                      |                     |          |
| Frequency (MHz)              |            |         |           | 38970               | 40185                | 40620                | 41058               | 41540                |                      |                     |          |
| 20 QPSK                      | 0          | 0       | 19.43     | 19.61               | 19.93                | 19.53                | 19.45               | 19.45                |                      |                     |          |
| 20 QPSK                      | 1          | 48      | 19.30     | 19.44               | 19.53                | 19.41                | 19.37               |                      | 20.4                 |                     | 0        |
| 20 QPSK                      | 50         | 0       | 19.32     | 19.41               | 19.53                | 19.47                | 19.49               |                      |                      |                     |          |
| 20 QPSK                      | 50         | 50      | 19.38     | 19.45               | 19.45                | 19.45                | 19.45               |                      |                      |                     |          |
| 20 QPSK                      | 50         | 24      | 19.32     | 19.39               | 19.45                | 19.45                | 19.43               |                      |                      |                     |          |
| 20 QPSK                      | 100        | 0       | 19.31     | 19.41               | 19.45                | 19.45                | 19.45               |                      |                      |                     |          |
| 20 QPSK                      | 100        | 0       | 19.21     | 19.32               | 19.38                | 19.12                | 19.14               |                      |                      |                     |          |
| 20 16QAM                     | 1          | 0       | 19.36     | 19.39               | 19.47                | 19.44                | 19.33               |                      |                      |                     |          |
| 20 16QAM                     | 1          | 48      | 19.28     | 19.37               | 19.47                | 19.47                | 19.34               |                      |                      |                     |          |
| 20 16QAM                     | 1          | 96      | 19.24     | 19.45               | 19.34                | 19.23                | 19.20               |                      |                      |                     |          |
| 20 16QAM                     | 50         | 0       | 19.30     | 19.33               | 19.39                | 19.45                | 19.50               |                      |                      |                     |          |
| 20 16QAM                     | 50         | 50      | 19.39     | 19.16               | 19.45                | 19.34                | 19.26               |                      | 20.4                 |                     | 0        |
| 20 16QAM                     | 50         | 24      | 19.16     | 19.26               | 19.12                | 19.26                | 19.40               |                      |                      |                     |          |
| 20 64QAM                     | 100        | 0       | 19.19     | 19.35               | 19.50                | 19.17                | 19.15               |                      |                      |                     |          |
| 20 64QAM                     | 100        | 0       | 19.06     | 19.06               | 19.06                | 19.06                | 19.06               |                      |                      |                     |          |
| 20 64QAM                     | 1          | 48      | 19.10     | 19.95               | 19.99                | 19.99                | 19.99               |                      | 20.4                 |                     | 0        |
| 20 64QAM                     | 1          | 96      | 19.08     | 19.92               | 19.92                | 19.92                | 19.92               |                      |                      |                     |          |
| 20 64QAM                     | 50         | 0       | 19.47     | 19.51               | 19.52                | 19.55                | 19.60               |                      |                      |                     |          |
| 20 64QAM                     | 50         | 24      | 19.37     | 19.37               | 19.38                | 19.34                | 19.50               |                      |                      |                     |          |
| 20 64QAM                     | 50         | 50      | 19.36     | 19.40               | 19.41                | 19.37                | 19.39               |                      | 20.4                 |                     | 0        |
| 20 64QAM                     | 100        | 0       | 19.52     | 19.44               | 19.46                | 19.47                | 19.50               |                      |                      |                     |          |
| 20 256QAM                    | 1          | 0       | 17.19     | 17.22               | 17.30                | 17.22                | 17.22               |                      |                      |                     |          |
| 20 256QAM                    | 1          | 48      | 17.06     | 17.17               | 17.21                | 17.18                | 17.10               |                      | 19                   | 1.4                 |          |
| 20 256QAM                    | 1          | 96      | 17.06     | 17.14               | 17.20                | 17.10                | 17.12               |                      |                      |                     |          |
| 20 256QAM                    | 1          | 24      | 17.12     | 17.26               | 17.26                | 17.22                | 17.27               |                      |                      |                     |          |
| 20 256QAM                    | 50         | 0       | 17.13     | 17.16               | 17.18                | 17.12                | 17.15               |                      | 19                   | 1.4                 |          |
| 20 256QAM                    | 50         | 24      | 17.05     | 17.16               | 17.13                | 17.14                | 17.16               |                      |                      |                     |          |
| 20 256QAM                    | 50         | 50      | 17.13     | 17.25               | 17.25                | 17.17                | 17.17               |                      |                      |                     |          |
| Channel                      |            |         |           |                     |                      |                      |                     |                      |                      |                     |          |
| Frequency (MHz)              |            |         |           | 38970               | 40173                | 40620                | 41058               | 41515                |                      |                     |          |
| 20 QPSK                      | 0          | 0       | 19.39     | 19.51               | 19.63                | 19.17                | 19.17               | 19.17                |                      |                     |          |
| 20 QPSK                      | 1          | 37      | 19.48     | 19.53               | 19.58                | 19.47                | 19.39               |                      | 20.4                 |                     | 0        |
| 20 QPSK                      | 1          | 74      | 19.47     | 19.53               | 19.58                | 19.58                | 19.58               |                      |                      |                     |          |
| 20 QPSK                      | 1          | 112     | 19.50     | 19.62               | 19.45                | 19.38                | 19.40               |                      |                      |                     |          |
| 20 QPSK                      | 36         | 20      | 19.44     | 19.56               | 19.51                | 19.57                | 19.67               |                      |                      |                     |          |
| 20 QPSK                      | 36         | 56      | 19.48     | 19.57               | 19.57                | 19.57                | 19.58               |                      |                      |                     |          |
| 20 QPSK                      | 75         | 0       | 19.32     | 19.56               | 19.56                | 19.34                | 19.21               |                      | 20.4                 |                     |          |
| 20 16QAM                     | 1          | 0       | 19.47     | 19.34               | 19.27                | 19.50                | 19.48               |                      |                      |                     |          |
| 20 16QAM                     | 1          | 37      | 19.24     | 19.43               | 19.21                | 19.34                | 19.45               |                      |                      |                     |          |
| 20 16QAM                     | 1          | 74      | 19.27     | 19.57               | 19.43                | 19.26                | 19.22               |                      |                      |                     |          |
| 20 16QAM                     | 36         | 0       | 19.33     | 19.49               | 19.54                | 19.53                | 19.58               |                      |                      |                     |          |
| 20 16QAM                     | 36         | 37      | 19.27     | 19.24               | 19.21                | 19.18                | 19.47               |                      |                      |                     |          |
| 20 16QAM                     | 36         | 74      | 19.27     | 19.42               | 19.25                | 19.25                | 19.50               |                      |                      |                     |          |
| 20 16QAM                     | 36         | 112     | 19.29     | 19.37               | 19.26                | 19.26                | 19.50               |                      |                      |                     |          |
| 20 16QAM                     | 75         | 0       | 19.20     | 19.03               | 19.00                | 19.21                | 19.25               |                      |                      |                     |          |
| 20 16QAM                     | 1          | 37      | 19.18     | 19.02               | 19.10                | 19.19                | 19.14               |                      | 20.4                 |                     | 0        |
| 20 64QAM                     | 1          | 74      | 19.23     | 19.45               | 19.45                | 19.26                | 19.56               |                      |                      |                     |          |
| 20 64QAM                     | 36         | 0       | 19.38     | 19.40               | 19.42                | 19.36                | 19.55               |                      |                      |                     |          |
| 20 64QAM                     | 36         | 25      | 19.23     | 19.26               | 19.28                | 19.28                | 19.50               |                      |                      |                     |          |
| 20 64QAM                     | 36         | 74      | 19.31     | 19.34               | 19.34                | 19.27                | 19.52               |                      |                      |                     |          |
| 20 64QAM                     | 75         | 0       | 19.45     | 19.31               | 19.35                | 19.35                | 19.36               |                      |                      |                     |          |
| 20 256QAM                    | 1          | 0       | 17.06     | 17.06               | 17.12                | 17.06                | 17.06               |                      |                      |                     |          |
| 20 256QAM                    | 1          | 37      | 17.11     | 17.00               | 17.12                | 17.08                | 17.08               |                      | 19                   | 1.4                 |          |
| 20 256QAM                    | 1          | 74      | 17.05     | 17.01               | 17.06                | 17.03                | 17.00               |                      |                      |                     |          |
| 20 256QAM                    | 1          | 112     | 17.06     | 17.12               | 17.06                | 17.06                | 17.06               |                      |                      |                     |          |
| 20 256QAM                    | 36         | 20      | 17.00     | 17.04               | 17.07                | 17.12                | 17.05               |                      | 19                   | 1.4                 |          |
| 20 256QAM                    | 36         | 56      | 17.02     | 17.01               | 17.08                | 17.00                | 17.02               |                      |                      |                     |          |
| 20 256QAM                    | 75         | 0       | 17.06     | 17.12               | 17.06                | 17.12                | 17.06               |                      |                      |                     |          |
| Channel                      |            |         |           |                     |                      |                      |                     |                      |                      |                     |          |
| Frequency (MHz)              |            |         |           | 38970               | 40160                | 40620                | 41098               | 41540                |                      |                     |          |
| 20 QPSK                      | 0          | 0       | 19.43     | 19.46               | 19.53                | 19.45                | 19.45               |                      |                      |                     |          |
| 20 QPSK                      | 1          | 25      | 19.34     | 19.58               | 19.58                | 19.44                | 19.46               |                      | 20.4                 |                     | 0        |
| 20 QPSK                      | 1          | 50      | 19.41     | 19.46               | 19.46                | 19.46                | 19.46               |                      |                      |                     |          |
| 20 QPSK                      | 25         | 0       | 19.43     | 19.50               | 19.50                | 19.51                | 19.51               |                      |                      |                     |          |
| 20 QPSK                      | 25         | 12      | 19.48     | 19.54               | 19.61                | 19.48                | 19.48               |                      | 20.4                 |                     | 0        |
| 20 QPSK                      | 50         | 0       | 19.48     | 19.50               | 19.52                | 19.48                | 19.48               |                      |                      |                     |          |
| 20 QPSK                      | 50         | 0       | 19.37     | 19.60               | 19.36                | 19.27                | 19.26               |                      |                      |                     |          |
| 20 16QAM                     | 1          | 0       | 19.48     | 19.40               | 19.62                | 19.36                | 19.48               |                      |                      |                     |          |
| 20 16QAM                     | 1          | 25      | 19.34     | 19.42               | 19.42                | 19.45                | 19.51               |                      |                      |                     |          |
| 20 16QAM                     | 1          | 49      | 19.33     | 19.57               | 19.37                | 19.27                | 19.23               |                      |                      |                     |          |
| 20 16QAM                     | 25         | 0       | 19.36     | 19.47               | 19.42                | 19.55                | 19.54               |                      |                      |                     |          |
| 20 16QAM                     | 25         | 12      | 19.34     | 19.39               | 19.38                | 19.39                | 19.52               |                      |                      |                     |          |
| 20 16QAM                     | 25         | 25      | 19.38     | 19.40               | 19.36                | 19.46                | 19.43               |                      |                      |                     |          |
| 20 16QAM                     | 50         | 0       | 19.30     | 19.40               | 19.38                | 19.38                | 19.38               |                      |                      |                     |          |
| 20 64QAM                     | 1          | 0       | 19.19     | 19.10               | 19.13                | 19.22                | 19.19               |                      |                      |                     |          |
| 20 64QAM                     | 1          | 25      | 19.22     | 19.01               | 19.09                | 19.17                | 19.20               |                      | 20.4                 |                     | 0        |
| 20 64QAM                     | 1          | 50      | 19.18     | 19.13               | 19.12                | 19.11                | 19.20               |                      |                      |                     |          |
| 20 64QAM                     | 25         | 0       | 19.41     | 19.36               | 19.41                | 19.38                | 19.50               |                      |                      |                     |          |
| 20 64QAM                     | 25         | 12      | 19.28     | 19.25               | 19.30                | 19.29                | 19.50               |                      |                      |                     |          |
| 20 64QAM                     | 25         | 25      | 19.28     | 19.28               | 19.30                | 19.30                | 19.42               |                      | 20.4                 |                     | 0        |
| 20 64QAM                     | 50         | 0       | 19.42     | 19.36               | 19.40                | 19.38                | 19.45               |                      |                      |                     |          |
| 20 64QAM                     | 50         | 0       | 17.11     | 17.07               | 17.07                | 17.07                | 17.09               |                      |                      |                     |          |
| 20 256QAM                    | 1          | 25      | 17.05     | 17.03               | 17.08                | 17.07                | 17.03               |                      | 19                   | 1.4                 |          |
| 20 256QAM                    | 1          | 49      | 17.15     | 17.05               | 17.12                | 17.07                | 17.00               |                      |                      |                     |          |
| 20 256QAM                    | 1          | 74      | 17.14     | 17.03               | 17.12                | 17.07                | 17.07               |                      |                      |                     |          |
| 20 256QAM                    | 25         | 12      | 17.07     | 17.03               | 17.08                | 17.07                | 17.05               |                      | 19                   | 1.4                 |          |
| 20 256QAM                    | 25         | 25      | 17.04     | 17.04               | 17.05                | 17.05                | 17.02               |                      |                      |                     |          |
| 20 256QAM                    | 50         | 0       | 17.02     | 17.12               | 17.02                | 17.02                | 17.12               |                      |                      |                     |          |
| Channel                      |            |         |           |                     |                      |                      |                     |                      |                      |                     |          |
| Frequency (MHz)              |            |         |           | 38970               | 40148                | 40620                | 41098               | 41565                |                      |                     |          |
| 20 QPSK                      | 0          | 0       | 19.46     | 19.56               | 19.63                | 19.45                | 19.45               |                      |                      |                     |          |
| 20 QPSK                      | 1          | 12      | 19.45     | 19.52               | 19.58                | 19.58                | 19.42               |                      | 20.4                 |                     | 0        |
| 20 QPSK                      | 1          | 24      | 19.35     | 19.46               | 19.46                | 19.46                | 19.46               |                      |                      |                     |          |
| 20 QPSK                      | 12         | 0       | 19.45     | 19.60               | 19.50                | 19.57                | 19.54               |                      |                      |                     |          |
| 20 QPSK                      | 12         | 7       | 19.45     | 19.47               | 19.55                | 19.51                | 19.51               |                      |                      |                     |          |
| 20 QPSK                      | 24         | 0       | 19.38     | 19.60               | 19.42                | 19.24                | 19.34               |                      | 20.4                 |                     | 0        |
| 20 QPSK                      | 24         | 0       | 19.24     | 19.35               | 19.24                | 19.14                | 19.23               |                      |                      |                     |          |
| 20 QPSK                      | 25         | 0       | 19.52     | 19.35               | 19.53                | 19.54                | 19.40               |                      |                      |                     |          |
| 20 16QAM                     | 1          | 0       | 19.42     | 19.42               | 19.42                | 19.42                | 19.42               |                      |                      |                     |          |
| 20 16QAM                     | 1          | 24      | 19.33     | 19.57               | 19.45                | 19.35                | 19.35               |                      |                      |                     |          |
| 20 16QAM                     | 1          | 48      | 19.37     | 19.56               | 19.45                | 19.37                | 19.36               |                      |                      |                     |          |
| 20 16QAM                     | 12         | 7       | 19.30     | 19.19               | 19.30                | 19.35                | 19.49               |                      | 20.4                 |                     | 0        |
| 20 16QAM                     | 12         | 13      | 19.27     | 19.31               | 19.28                | 19.31                | 19.45               |                      |                      |                     |          |
| 20 16QAM                     | 24         | 0       | 19.32     | 19.37               | 19.36                | 19.37                | 19.51               |                      |                      |                     |          |
| 20 16QAM                     | 24         | 0       | 19.10     | 19.16               | 19.12                | 19.11                | 19.16               |                      |                      |                     |          |
| 20 16QAM                     | 25         | 12      | 19.22     | 19.07               | 19.12                | 19.11                | 19.20               |                      |                      |                     |          |
| 20 16QAM                     | 25         | 12      | 19.20     | 19.10               | 19.10                | 19.10                | 19.10               |                      |                      |                     |          |
| 20 64QAM                     | 1          | 0       | 19.38     | 19.42               | 19.41                | 19.38                | 19.58               |                      |                      |                     |          |
| 20 64QAM                     | 1          | 24      | 19.31     | 19.24               | 19.24                | 19.21                | 19.45               |                      |                      |                     |          |
| 20 64QAM                     | 1          | 48      | 19.28     | 19.34               | 19.28                | 19.34                | 19.48               |                      |                      |                     |          |
| 20 64QAM                     | 25         | 0       | 19.47     | 19.35               | 19.35                | 19.33                | 19.37               |                      |                      |                     |          |
| 20 256QAM                    | 1          | 0       | 17.07     | 17.06               | 17.11                | 17.07                | 17.07               |                      |                      |                     |          |
| 20 256QAM                    | 1          | 12      | 17.04     | 17.08               | 17.11                | 17.05                | 17.07               |                      | 19                   | 1.4                 |          |
| 20 256QAM                    | 1          | 24      | 17.08     | 17.06               | 17.15                | 17.12                | 17.04               |                      |                      |                     |          |
| 20 256QAM                    | 1          | 48      | 17.04     | 17.06               | 17.14                | 17.11                | 17.14               |                      |                      |                     |          |
| 20 256QAM                    | 12         | 7       | 17.06     | 17.03               | 17.08                | 17.06                | 17.05               |                      |                      |                     |          |
| 20 256QAM                    | 12         | 13      | 17.13     | 17.10               | 17.06                | 17.06                | 17.15               |                      | 19                   | 1.4                 |          |



| Band 42 Part 27Q Ant2 DSI3 Standalone |            |         |           |                     |                     |                      |                     |          |     |  |
|---------------------------------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|-----|--|
| BW [MHz]                              | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mid Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |     |  |
| Channel                               |            |         |           | 42190               | 42590               | 42990                |                     |          |     |  |
| Frequency (MHz)                       |            |         |           | 3410                | 3500                | 3640                 |                     |          |     |  |
| 20                                    | QPSK       | 1       | 0         | 18.30               | 18.66               | 18.25                | 19.6                | 0        |     |  |
| 20                                    | QPSK       | 1       | 49        | 18.30               | 18.62               | 18.28                |                     |          |     |  |
| 20                                    | QPSK       | 1       | 99        | 18.30               | 18.61               | 18.31                |                     |          |     |  |
| 20                                    | QPSK       | 50      | 0         | 18.31               | 18.59               | 18.19                |                     |          |     |  |
| 20                                    | QPSK       | 50      | 24        | 18.18               | 18.50               | 18.15                | 19.6                | 0        |     |  |
| 20                                    | QPSK       | 50      | 50        | 18.30               | 18.49               | 18.18                |                     |          |     |  |
| 20                                    | QPSK       | 100     | 0         | 18.30               | 18.44               | 18.09                |                     |          |     |  |
| 20                                    | 16QAM      | 1       | 0         | 18.27               | 18.59               | 18.12                |                     |          |     |  |
| 20                                    | 16QAM      | 1       | 49        | 18.27               | 18.57               | 18.20                | 19.6                | 0        |     |  |
| 20                                    | 16QAM      | 1       | 99        | 18.30               | 18.59               | 18.20                |                     |          |     |  |
| 20                                    | 16QAM      | 50      | 0         | 18.20               | 18.52               | 18.15                |                     |          |     |  |
| 20                                    | 16QAM      | 50      | 24        | 18.40               | 18.37               | 18.10                |                     |          |     |  |
| 20                                    | 16QAM      | 50      | 50        | 18.30               | 18.40               | 18.10                | 19.6                | 0        |     |  |
| 20                                    | 64QAM      | 100     | 0         | 18.27               | 18.52               | 18.26                |                     |          |     |  |
| 20                                    | 64QAM      | 1       | 0         | 18.25               | 18.50               | 18.22                |                     |          |     |  |
| 20                                    | 64QAM      | 1       | 49        | 18.18               | 18.61               | 18.26                |                     |          |     |  |
| 20                                    | 64QAM      | 1       | 99        | 18.30               | 18.56               | 18.22                | 19.6                | 0        |     |  |
| 20                                    | 64QAM      | 50      | 0         | 18.21               | 18.48               | 18.15                |                     |          |     |  |
| 20                                    | 64QAM      | 50      | 24        | 18.05               | 18.38               | 18.05                |                     |          |     |  |
| 20                                    | 64QAM      | 50      | 50        | 18.10               | 18.45               | 18.18                |                     |          |     |  |
| 20                                    | 64QAM      | 100     | 0         | 18.26               | 18.26               | 17.99                | 19                  | 0.6      |     |  |
| 20                                    | 256QAM     | 1       | 0         | 17.60               | 17.71               | 17.38                |                     |          |     |  |
| 20                                    | 256QAM     | 1       | 49        | 17.37               | 17.65               | 17.37                |                     |          |     |  |
| 20                                    | 256QAM     | 1       | 99        | 17.43               | 17.63               | 17.41                |                     |          |     |  |
| 20                                    | 256QAM     | 50      | 0         | 17.59               | 17.69               | 17.37                | 19                  | 0.6      |     |  |
| 20                                    | 256QAM     | 50      | 24        | 17.40               | 17.64               | 17.32                |                     |          |     |  |
| 20                                    | 256QAM     | 50      | 50        | 17.38               | 17.64               | 17.40                |                     |          |     |  |
| 20                                    | 256QAM     | 100     | 0         | 17.61               | 17.70               | 17.35                |                     |          |     |  |
| Channel                               |            |         |           | 42165               | 42590               | 43015                | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)                       |            |         |           | 3437.5              | 3500                | 3675                 |                     |          |     |  |
| 15                                    | QPSK       | 1       | 0         | 18.21               | 18.49               | 18.13                | 19.6                | 0        |     |  |
| 15                                    | QPSK       | 1       | 37        | 18.33               | 18.46               | 18.13                |                     |          |     |  |
| 15                                    | QPSK       | 1       | 74        | 18.26               | 18.57               | 18.27                |                     |          |     |  |
| 15                                    | QPSK       | 56      | 0         | 18.21               | 18.43               | 18.12                |                     |          |     |  |
| 15                                    | QPSK       | 56      | 29        | 18.14               | 18.34               | 18.07                | 19.6                | 0        |     |  |
| 15                                    | 16QAM      | 1       | 0         | 18.10               | 18.48               | 18.18                |                     |          |     |  |
| 15                                    | QPSK       | 75      | 0         | 18.20               | 18.37               | 18.01                |                     |          |     |  |
| 15                                    | 16QAM      | 1       | 0         | 18.18               | 18.41               | 18.14                | 19.6                | 0        |     |  |
| 15                                    | 16QAM      | 1       | 37        | 18.10               | 18.53               | 18.14                |                     |          |     |  |
| 15                                    | 16QAM      | 1       | 74        | 18.27               | 18.50               | 18.08                |                     |          |     |  |
| 15                                    | 16QAM      | 56      | 0         | 18.03               | 18.42               | 18.03                |                     |          |     |  |
| 15                                    | 16QAM      | 56      | 29        | 17.90               | 18.21               | 18.06                | 19.6                | 0        |     |  |
| 15                                    | 16QAM      | 56      | 59        | 18.16               | 18.32               | 17.83                |                     |          |     |  |
| 15                                    | 16QAM      | 75      | 0         | 18.13               | 18.30               | 18.14                |                     |          |     |  |
| 15                                    | 64QAM      | 1       | 0         | 18.30               | 18.37               | 18.17                |                     |          |     |  |
| 15                                    | 64QAM      | 1       | 37        | 18.10               | 18.37               | 18.17                | 19.6                | 0        |     |  |
| 15                                    | 64QAM      | 1       | 74        | 18.25               | 18.59               | 18.11                |                     |          |     |  |
| 15                                    | 64QAM      | 56      | 0         | 18.05               | 18.35               | 18.00                |                     |          |     |  |
| 15                                    | 64QAM      | 56      | 29        | 17.81               | 18.20               | 18.01                |                     | 19.6     | 0   |  |
| 15                                    | 64QAM      | 75      | 0         | 18.23               | 18.21               | 17.97                |                     |          |     |  |
| 15                                    | 64QAM      | 75      | 0         | 18.23               | 18.21               | 17.97                |                     |          |     |  |
| 15                                    | 256QAM     | 1       | 0         | 17.97               | 17.81               | 17.23                | 19                  | 0.6      |     |  |
| 15                                    | 256QAM     | 1       | 37        | 17.20               | 17.60               | 17.23                |                     |          |     |  |
| 15                                    | 256QAM     | 1       | 74        | 17.34               | 17.62               | 17.28                |                     |          |     |  |
| 15                                    | 256QAM     | 56      | 0         | 17.48               | 17.60               | 17.27                |                     |          |     |  |
| 15                                    | 256QAM     | 56      | 29        | 17.21               | 17.65               | 17.26                | 19                  | 0.6      |     |  |
| 15                                    | 256QAM     | 56      | 59        | 17.25               | 17.52               | 17.35                |                     |          |     |  |
| 15                                    | 256QAM     | 75      | 0         | 17.40               | 17.58               | 17.28                |                     |          |     |  |
| Channel                               |            |         |           | 42140               | 42590               | 43040                | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)                       |            |         |           | 3410                | 3500                | 3640                 |                     |          |     |  |
| 10                                    | QPSK       | 1       | 0         | 18.20               | 18.56               | 18.16                | 19.6                | 0        |     |  |
| 10                                    | QPSK       | 1       | 25        | 18.28               | 18.51               | 18.21                |                     |          |     |  |
| 10                                    | QPSK       | 1       | 49        | 18.34               | 18.61               | 18.25                |                     |          |     |  |
| 10                                    | QPSK       | 25      | 0         | 18.24               | 18.47               | 18.06                |                     |          |     |  |
| 10                                    | QPSK       | 25      | 12        | 18.04               | 18.41               | 18.04                | 19.6                | 0        |     |  |
| 10                                    | QPSK       | 25      | 25        | 18.27               | 18.38               | 18.06                |                     |          |     |  |
| 10                                    | 16QAM      | 1       | 0         | 18.17               | 18.33               | 17.91                |                     |          |     |  |
| 10                                    | 16QAM      | 1       | 0         | 18.23               | 18.45               | 18.06                | 19.6                | 0        |     |  |
| 10                                    | 16QAM      | 1       | 25        | 18.13               | 18.50               | 18.09                |                     |          |     |  |
| 10                                    | 16QAM      | 1       | 49        | 18.31               | 18.54               | 18.06                |                     |          |     |  |
| 10                                    | 16QAM      | 25      | 0         | 18.10               | 18.42               | 18.00                |                     | 19.6     | 0   |  |
| 10                                    | 16QAM      | 25      | 12        | 17.94               | 18.36               | 18.00                |                     |          |     |  |
| 10                                    | 16QAM      | 25      | 25        | 18.27               | 18.32               | 18.08                |                     |          |     |  |
| 10                                    | 16QAM      | 50      | 0         | 18.23               | 18.22               | 17.90                |                     | 19.6     | 0   |  |
| 10                                    | 64QAM      | 1       | 0         | 18.28               | 18.46               | 18.13                |                     |          |     |  |
| 10                                    | 64QAM      | 1       | 25        | 18.15               | 18.49               | 18.08                |                     |          |     |  |
| 10                                    | 64QAM      | 1       | 49        | 18.13               | 18.43               | 18.19                | 19.6                | 0        |     |  |
| 10                                    | 64QAM      | 25      | 0         | 18.44               | 18.31               | 18.13                |                     |          |     |  |
| 10                                    | 64QAM      | 25      | 12        | 17.90               | 18.24               | 17.87                |                     |          |     |  |
| 10                                    | 64QAM      | 25      | 25        | 18.14               | 18.32               | 18.14                |                     | 19.6     | 0.6 |  |
| 10                                    | 256QAM     | 1       | 0         | 17.45               | 17.57               | 17.30                |                     |          |     |  |
| 10                                    | 256QAM     | 1       | 25        | 17.28               | 17.58               | 17.23                | 19                  | 0.6      |     |  |
| 10                                    | 256QAM     | 1       | 49        | 17.25               | 17.67               | 17.30                |                     |          |     |  |
| 10                                    | 256QAM     | 25      | 0         | 17.53               | 17.63               | 17.26                |                     |          |     |  |
| 10                                    | 256QAM     | 25      | 12        | 17.26               | 17.67               | 17.26                |                     | 19       | 0.6 |  |
| 10                                    | 256QAM     | 25      | 25        | 17.28               | 17.49               | 17.28                |                     |          |     |  |
| 10                                    | 256QAM     | 50      | 0         | 17.41               | 17.62               | 17.22                |                     |          |     |  |
| Channel                               |            |         |           | 42115               | 42590               | 43065                | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)                       |            |         |           | 3462.5              | 3500                | 3547.5               |                     |          |     |  |
| 5                                     | QPSK       | 1       | 0         | 18.36               | 18.49               | 18.22                | 19.6                | 0        |     |  |
| 5                                     | QPSK       | 1       | 12        | 18.10               | 18.52               | 18.11                |                     |          |     |  |
| 5                                     | QPSK       | 1       | 24        | 18.32               | 18.51               | 18.25                |                     |          |     |  |
| 5                                     | QPSK       | 12      | 0         | 18.18               | 18.47               | 18.14                |                     |          |     |  |
| 5                                     | QPSK       | 12      | 7         | 18.10               | 18.43               | 18.00                | 19.6                | 0        |     |  |
| 5                                     | QPSK       | 12      | 13        | 18.33               | 18.46               | 18.09                |                     |          |     |  |
| 5                                     | QPSK       | 25      | 0         | 18.17               | 18.27               | 18.04                |                     |          |     |  |
| 5                                     | 16QAM      | 1       | 0         | 18.24               | 18.45               | 18.09                | 19.6                | 0        |     |  |
| 5                                     | 16QAM      | 1       | 12        | 18.08               | 18.50               | 18.07                |                     |          |     |  |
| 5                                     | 16QAM      | 1       | 24        | 18.27               | 18.44               | 18.13                |                     |          |     |  |
| 5                                     | 16QAM      | 12      | 0         | 18.03               | 18.41               | 18.04                |                     | 19.6     | 0   |  |
| 5                                     | 16QAM      | 12      | 7         | 17.95               | 18.28               | 18.02                |                     |          |     |  |
| 5                                     | 16QAM      | 12      | 13        | 18.21               | 18.36               | 17.95                |                     |          |     |  |
| 5                                     | 16QAM      | 25      | 0         | 18.25               | 18.19               | 17.88                | 19.6                | 0        |     |  |
| 5                                     | 64QAM      | 1       | 0         | 18.26               | 18.34               | 18.12                |                     |          |     |  |
| 5                                     | 64QAM      | 1       | 12        | 18.04               | 18.48               | 18.18                |                     |          |     |  |
| 5                                     | 64QAM      | 1       | 24        | 18.14               | 18.44               | 18.05                |                     | 19.6     | 0   |  |
| 5                                     | 64QAM      | 12      | 0         | 18.03               | 18.39               | 18.16                |                     |          |     |  |
| 5                                     | 64QAM      | 12      | 7         | 18.03               | 18.16               | 17.94                |                     |          |     |  |
| 5                                     | 64QAM      | 12      | 13        | 18.12               | 18.33               | 18.11                | 19.6                | 0        |     |  |
| 5                                     | 64QAM      | 25      | 0         | 18.20               | 18.21               | 17.86                |                     |          |     |  |
| 5                                     | 256QAM     | 1       | 0         | 17.41               | 17.60               | 17.31                |                     |          |     |  |
| 5                                     | 256QAM     | 1       | 12        | 17.31               | 17.51               | 17.28                | 19                  | 0.6      |     |  |
| 5                                     | 256QAM     | 1       | 24        | 17.38               | 17.65               | 17.31                |                     |          |     |  |
| 5                                     | 256QAM     | 12      | 0         | 17.40               | 17.54               | 17.24                |                     |          |     |  |
| 5                                     | 256QAM     | 12      | 7         | 17.28               | 17.49               | 17.18                |                     | 19       | 0.6 |  |
| 5                                     | 256QAM     | 12      | 13        | 17.27               | 17.65               | 17.31                |                     |          |     |  |
| 5                                     | 256QAM     | 25      | 0         | 17.45               | 17.59               | 17.27                |                     |          |     |  |

| Band 7 Ant5 DSI3 Standalone |            |         |           |                       |                        |                        |                    |             |  |  |
|-----------------------------|------------|---------|-----------|-----------------------|------------------------|------------------------|--------------------|-------------|--|--|
| BW (MHz)                    | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Mask Ch. / Freq. | Power High Ch. / Freq. | Time-up Int. (dBm) | Margin (dB) |  |  |
| Channel                     |            |         |           | 20850                 | 21100                  | 21350                  |                    |             |  |  |
| Frequency (MHz)             |            |         |           | 2510                  | 2535                   | 2560                   |                    |             |  |  |
| 20                          | QPSK       | 1       | 0         | 17.60                 | 17.66                  | 17.76                  | 19.1               | 0           |  |  |
| 20                          | QPSK       | 1       | 49        | 17.48                 | 17.77                  | 17.58                  |                    |             |  |  |
| 20                          | QPSK       | 1       | 99        | 17.43                 | 17.63                  | 17.57                  |                    |             |  |  |
| 20                          | QPSK       | 50      | 0         | 17.44                 | 17.77                  | 17.60                  |                    |             |  |  |
| 20                          | QPSK       | 50      | 24        | 17.52                 | 17.54                  | 17.40                  | 19.1               | 0           |  |  |
| 20                          | QPSK       | 50      | 50        | 17.37                 | 17.52                  | 17.53                  |                    |             |  |  |
| 20                          | QPSK       | 100     | 0         | 17.33                 | 17.52                  | 17.41                  |                    |             |  |  |
| 20                          | 16QAM      | 1       | 0         | 17.52                 | 17.65                  | 17.62                  |                    |             |  |  |
| 20                          | 16QAM      | 1       | 49        | 17.30                 | 17.50                  | 17.48                  | 19.1               | 0           |  |  |
| 20                          | 16QAM      | 1       | 99        | 17.39                 | 17.57                  | 17.51                  |                    |             |  |  |
| 20                          | 16QAM      | 50      | 0         | 17.58                 | 17.52                  | 17.49                  |                    |             |  |  |
| 20                          | 16QAM      | 50      | 24        | 17.17                 | 17.35                  | 17.29                  |                    |             |  |  |
| 20                          | 16QAM      | 50      | 50        | 17.28                 | 17.42                  | 17.42                  | 19.1               | 0           |  |  |
| 20                          | 16QAM      | 100     | 0         | 17.25                 | 17.43                  | 17.35                  |                    |             |  |  |
| 20                          | 64QAM      | 1       | 0         | 17.44                 | 17.65                  | 17.64                  |                    |             |  |  |
| 20                          | 64QAM      | 1       | 49        | 17.17                 | 17.53                  | 17.42                  | 19.1               | 0           |  |  |
| 20                          | 64QAM      | 1       | 99        | 17.38                 | 17.59                  | 17.45                  |                    |             |  |  |
| 20                          | 64QAM      | 50      | 0         | 17.23                 | 17.64                  | 17.43                  |                    |             |  |  |
| 20                          | 64QAM      | 50      | 24        | 17.15                 | 17.38                  | 17.29                  |                    |             |  |  |
| 20                          | 64QAM      | 50      | 50        | 17.25                 | 17.48                  | 17.41                  | 19.1               | 0           |  |  |
| 20                          | 64QAM      | 100     | 0         | 17.30                 | 17.41                  | 17.33                  |                    |             |  |  |
| 20                          | 256QAM     | 1       | 0         | 17.46                 | 17.67                  | 17.69                  |                    |             |  |  |
| 20                          | 256QAM     | 1       | 49        | 17.27                 | 17.61                  | 17.52                  | 19                 | 0.1         |  |  |
| 20                          | 256QAM     | 1       | 99        | 17.25                 | 17.56                  | 17.44                  |                    |             |  |  |
| 20                          | 256QAM     | 50      | 0         | 17.43                 | 17.72                  | 17.67                  |                    |             |  |  |
| 20                          | 256QAM     | 50      | 24        | 17.32                 | 17.59                  | 17.49                  |                    |             |  |  |
| 20                          | 256QAM     | 50      | 50        | 17.31                 | 17.53                  | 17.50                  | 19                 | 0.1         |  |  |
| 20                          | 256QAM     | 100     | 0         | 17.26                 | 17.44                  | 17.35                  |                    |             |  |  |
| Channel                     |            |         |           | 20853                 | 21100                  | 21375                  | Time-up Int. (dBm) | Margin (dB) |  |  |
| Frequency (MHz)             |            |         |           | 2507.5                | 2535                   | 2562.5                 |                    |             |  |  |
| 15                          | QPSK       | 1       | 0         | 17.52                 | 17.65                  | 17.68                  | 19.1               | 0           |  |  |
| 15                          | QPSK       | 1       | 37        | 17.25                 | 17.56                  | 17.44                  |                    |             |  |  |
| 15                          | QPSK       | 1       | 74        | 17.38                 | 17.60                  | 17.55                  |                    |             |  |  |
| 15                          | QPSK       | 36      | 0         | 17.41                 | 17.60                  | 17.44                  |                    |             |  |  |
| 15                          | QPSK       | 36      | 20        | 17.50                 | 17.48                  | 17.28                  | 19.1               | 0           |  |  |
| 15                          | QPSK       | 36      | 36        | 17.24                 | 17.38                  | 17.44                  |                    |             |  |  |
| 15                          | QPSK       | 75      | 0         | 17.25                 | 17.41                  | 17.29                  |                    |             |  |  |
| 15                          | 16QAM      | 1       | 0         | 17.43                 | 17.48                  | 17.51                  |                    |             |  |  |
| 15                          | 16QAM      | 1       | 37        | 17.13                 | 17.38                  | 17.34                  | 19.1               | 0           |  |  |
| 15                          | 16QAM      | 1       | 74        | 17.21                 | 17.54                  | 17.37                  |                    |             |  |  |
| 15                          | 16QAM      | 36      | 0         | 17.32                 | 17.37                  | 17.45                  |                    |             |  |  |
| 15                          | 16QAM      | 36      | 20        | 17.13                 | 17.20                  | 17.24                  |                    |             |  |  |
| 15                          | 16QAM      | 36      | 36        | 17.17                 | 17.25                  | 17.26                  | 19.1               | 0           |  |  |
| 15                          | 16QAM      | 75      | 0         | 17.22                 | 17.29                  | 17.34                  |                    |             |  |  |
| 15                          | 64QAM      | 1       | 0         | 17.39                 | 17.57                  | 17.49                  |                    |             |  |  |
| 15                          | 64QAM      | 1       | 37        | 17.23                 | 17.51                  | 17.28                  | 19.1               | 0           |  |  |
| 15                          | 64QAM      | 1       | 74        | 17.27                 | 17.53                  | 17.31                  |                    |             |  |  |
| 15                          | 64QAM      | 36      | 0         | 17.15                 | 17.48                  | 17.34                  |                    |             |  |  |
| 15                          | 64QAM      | 36      | 20        | 17.11                 | 17.26                  | 17.26                  |                    |             |  |  |
| 15                          | 64QAM      | 36      | 36        | 17.19                 | 17.33                  | 17.22                  | 19                 | 0.1         |  |  |
| 15                          | 64QAM      | 75      | 0         | 17.18                 | 17.24                  | 17.21                  |                    |             |  |  |
| 15                          | 256QAM     | 1       | 0         | 17.50                 | 17.73                  | 17.66                  |                    |             |  |  |
| 15                          | 256QAM     | 1       | 37        | 17.35                 | 17.62                  | 17.55                  |                    |             |  |  |
| 15                          | 256QAM     | 1       | 74        | 17.30                 | 17.59                  | 17.50                  | 19                 | 0.1         |  |  |
| 15                          | 256QAM     | 36      | 0         | 17.47                 | 17.74                  | 17.67                  |                    |             |  |  |
| 15                          | 256QAM     | 36      | 20        | 17.29                 | 17.57                  | 17.55                  |                    |             |  |  |
| 15                          | 256QAM     | 36      | 36        | 17.27                 | 17.55                  | 17.48                  |                    |             |  |  |
| 15                          | 256QAM     | 75      | 0         | 17.29                 | 17.57                  | 17.46                  |                    |             |  |  |
| Channel                     |            |         |           | 20855                 | 21100                  | 21400                  | Time-up Int. (dBm) | Margin (dB) |  |  |
| Frequency (MHz)             |            |         |           | 2505                  | 2535                   | 2565                   |                    |             |  |  |
| 10                          | QPSK       | 1       | 0         | 17.58                 | 17.66                  | 17.62                  | 19.1               | 0           |  |  |
| 10                          | QPSK       | 1       | 25        | 17.17                 | 17.54                  | 17.51                  |                    |             |  |  |
| 10                          | QPSK       | 1       | 49        | 17.27                 | 17.48                  | 17.48                  |                    |             |  |  |
| 10                          | QPSK       | 25      | 0         | 17.40                 | 17.61                  | 17.49                  |                    |             |  |  |
| 10                          | QPSK       | 25      | 12        | 17.28                 | 17.48                  | 17.37                  | 19.1               | 0           |  |  |
| 10                          | QPSK       | 25      | 25        | 17.29                 | 17.45                  | 17.44                  |                    |             |  |  |
| 10                          | QPSK       | 25      | 0         | 17.28                 | 17.39                  | 17.31                  |                    |             |  |  |
| 10                          | 16QAM      | 1       | 0         | 17.40                 | 17.47                  | 17.43                  |                    |             |  |  |
| 10                          | 16QAM      | 1       | 25        | 17.25                 | 17.34                  | 17.36                  | 19.1               | 0           |  |  |
| 10                          | 16QAM      | 1       | 49        | 17.28                 | 17.47                  | 17.47                  |                    |             |  |  |
| 10                          | 16QAM      | 25      | 0         | 17.21                 | 17.45                  | 17.35                  |                    |             |  |  |
| 10                          | 16QAM      | 25      | 12        | 17.14                 | 17.20                  | 17.25                  |                    |             |  |  |
| 10                          | 16QAM      | 25      | 25        | 17.10                 | 17.30                  | 17.32                  | 19.1               | 0           |  |  |
| 10                          | 16QAM      | 50      | 0         | 17.14                 | 17.39                  | 17.32                  |                    |             |  |  |
| 10                          | 64QAM      | 1       | 0         | 17.40                 | 17.61                  | 17.60                  |                    |             |  |  |
| 10                          | 64QAM      | 1       | 25        | 17.14                 | 17.47                  | 17.38                  | 19.1               | 0           |  |  |
| 10                          | 64QAM      | 1       | 49        | 17.28                 | 17.51                  | 17.43                  |                    |             |  |  |
| 10                          | 64QAM      | 25      | 0         | 17.25                 | 17.46                  | 17.28                  |                    |             |  |  |
| 10                          | 64QAM      | 25      | 12        | 17.15                 | 17.35                  | 17.11                  |                    |             |  |  |
| 10                          | 64QAM      | 25      | 25        | 17.11                 | 17.31                  | 17.37                  | 19                 | 0.1         |  |  |
| 10                          | 256QAM     | 1       | 0         | 17.16                 | 17.34                  | 17.16                  |                    |             |  |  |
| 10                          | 256QAM     | 1       | 0         | 17.27                 | 17.63                  | 17.50                  |                    |             |  |  |
| 10                          | 256QAM     | 1       | 25        | 17.21                 | 17.53                  | 17.47                  |                    |             |  |  |
| 10                          | 256QAM     | 1       | 49        | 17.14                 | 17.42                  | 17.37                  | 19                 | 0.1         |  |  |
| 10                          | 256QAM     | 25      | 0         | 17.45                 | 17.57                  | 17.52                  |                    |             |  |  |
| 10                          | 256QAM     | 25      | 12        | 17.47                 | 17.51                  | 17.47                  |                    |             |  |  |
| 10                          | 256QAM     | 25      | 25        | 17.13                 | 17.44                  | 17.34                  |                    |             |  |  |
| 10                          | 256QAM     | 50      | 0         | 17.43                 | 17.57                  | 17.49                  |                    |             |  |  |
| Channel                     |            |         |           | 20775                 | 21100                  | 21425                  | Time-up Int. (dBm) | Margin (dB) |  |  |
| Frequency (MHz)             |            |         |           | 2502.5                | 2535                   | 2567.5                 |                    |             |  |  |
| 5                           | QPSK       | 1       | 0         | 17.50                 | 17.60                  | 17.72                  | 19.1               | 0           |  |  |
| 5                           | QPSK       | 1       | 12        | 17.27                 | 17.60                  | 17.48                  |                    |             |  |  |
| 5                           | QPSK       | 1       | 24        | 17.31                 | 17.55                  | 17.52                  |                    |             |  |  |
| 5                           | QPSK       | 13      | 0         | 17.27                 | 17.62                  | 17.57                  |                    |             |  |  |
| 5                           | QPSK       | 12      | 7         | 17.15                 | 17.51                  | 17.38                  | 19.1               | 0           |  |  |
| 5                           | QPSK       | 12      | 13        | 17.21                 | 17.44                  | 17.38                  |                    |             |  |  |
| 5                           | QPSK       | 25      | 0         | 17.22                 | 17.43                  | 17.24                  |                    |             |  |  |
| 5                           | 16QAM      | 1       | 0         | 17.35                 | 17.49                  | 17.55                  |                    |             |  |  |
| 5                           | 16QAM      | 1       | 12        | 17.28                 | 17.33                  | 17.42                  | 19.1               | 0           |  |  |
| 5                           | 16QAM      | 1       | 24        | 17.24                 | 17.43                  | 17.41                  |                    |             |  |  |
| 5                           | 16QAM      | 12      | 0         | 17.21                 | 17.36                  | 17.42                  |                    |             |  |  |
| 5                           | 16QAM      | 12      | 7         | 17.15                 | 17.29                  | 17.20                  |                    |             |  |  |
| 5                           | 16QAM      | 12      | 13        | 17.13                 | 17.34                  | 17.30                  | 19.1               | 0           |  |  |
| 5                           | 64QAM      | 1       | 0         | 17.28                 | 17.47                  | 17.59                  |                    |             |  |  |
| 5                           | 64QAM      | 1       | 12        | 17.13                 | 17.47                  | 17.27                  |                    |             |  |  |
| 5                           | 64QAM      | 1       | 24        | 17.28                 | 17.43                  | 17.36                  |                    |             |  |  |
| 5                           | 64QAM      | 12      | 0         | 17.26                 | 17.54                  | 17.29                  | 19.1               | 0           |  |  |
| 5                           | 64QAM      | 12      | 7         | 17.10                 | 17.22                  | 17.25                  |                    |             |  |  |
| 5                           | 64QAM      | 12      | 13        | 17.22                 | 17.35                  | 17.37                  |                    |             |  |  |
| 5                           | 16QAM      | 25      | 0         | 17.19                 | 17.28                  | 17.26                  |                    |             |  |  |
| 5                           | 256QAM     | 1       | 0         | 17.52                 | 17.64                  | 17.76                  | 19                 | 0.1         |  |  |
| 5                           | 256QAM     | 1       | 12        | 17.37                 | 17.51                  | 17.54                  | 19.1               | 0           |  |  |
| 5                           | 256QAM     | 1       | 24        | 17.20                 | 17.45                  | 17.43                  |                    |             |  |  |
| 5                           | 256QAM     | 1       | 37        | 17.24                 | 17.58                  | 17.52                  |                    |             |  |  |
| 5                           | 256QAM     | 1       | 50        | 17.13                 | 17.47                  | 17.35                  |                    |             |  |  |
| 5                           | 256QAM     | 12      | 0         | 17.15                 | 17.45                  | 17.37                  | 19                 | 0.1         |  |  |
| 5                           | 256QAM     | 12      | 7         | 17.08                 | 17.45                  | 17.37                  |                    |             |  |  |
| 5                           | 256QAM     | 12      | 13        | 17.25                 | 17.38                  | 17.37                  |                    |             |  |  |
| 5                           | 256QAM     | 25      | 0         | 17.18                 | 17.28                  | 17.26                  |                    |             |  |  |

| Band 38 Ant5 DSI3 Standalone |            |         |           |                            |                              |                      |                        |             |             |  |  |
|------------------------------|------------|---------|-----------|----------------------------|------------------------------|----------------------|------------------------|-------------|-------------|--|--|
| BW [MHz]                     | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch / Freq. | Power<br>Medio<br>Ch / Freq. | Power<br>Hig / Freq. | Tune-up limit<br>(dBm) | MPE<br>(dB) |             |  |  |
| Channel                      |            |         |           |                            |                              |                      |                        |             |             |  |  |
| Frequency (MHz)              |            |         |           |                            |                              |                      |                        |             |             |  |  |
| 20                           | QPSK       | 1       | 0         | 16.98                      | 17.01                        | 16.97                | 18                     | 0           |             |  |  |
| 20                           | QPSK       | 1       | 49        | 16.60                      | 16.81                        | 16.81                |                        |             |             |  |  |
| 20                           | QPSK       | 1       | 99        | 16.66                      | 16.79                        | 16.74                |                        |             |             |  |  |
| 20                           | QPSK       | 50      | 0         | 16.72                      | 16.88                        | 16.76                |                        |             |             |  |  |
| 20                           | QPSK       | 50      | 24        | 16.63                      | 16.71                        | 16.69                | 18                     | 0           |             |  |  |
| 20                           | QPSK       | 50      | 50        | 16.63                      | 16.67                        | 16.84                |                        |             |             |  |  |
| 20                           | QPSK       | 100     | 0         | 16.45                      | 16.60                        | 16.54                |                        |             |             |  |  |
| 20                           | 16QAM      | 1       | 0         | 16.84                      | 16.84                        | 16.72                |                        |             |             |  |  |
| 20                           | 16QAM      | 1       | 49        | 16.50                      | 16.68                        | 16.66                | 18                     | 0           |             |  |  |
| 20                           | 16QAM      | 1       | 99        | 16.51                      | 16.68                        | 16.68                |                        |             |             |  |  |
| 20                           | 16QAM      | 50      | 0         | 16.70                      | 16.66                        | 16.81                |                        |             |             |  |  |
| 20                           | 16QAM      | 50      | 24        | 16.57                      | 16.56                        | 16.81                |                        |             |             |  |  |
| 20                           | 16QAM      | 50      | 50        | 16.30                      | 16.57                        | 16.84                | 18                     | 0           |             |  |  |
| 20                           | 16QAM      | 100     | 0         | 16.40                      | 16.51                        | 16.50                |                        |             |             |  |  |
| 20                           | 64QAM      | 1       | 0         | 16.60                      | 16.84                        | 16.75                |                        |             |             |  |  |
| 20                           | 64QAM      | 1       | 49        | 16.59                      | 16.75                        | 16.71                |                        |             |             |  |  |
| 20                           | 64QAM      | 1       | 99        | 16.51                      | 16.70                        | 16.67                | 18                     | 0           |             |  |  |
| 20                           | 64QAM      | 50      | 0         | 16.60                      | 16.62                        | 16.82                |                        |             |             |  |  |
| 20                           | 64QAM      | 50      | 24        | 16.53                      | 16.67                        | 16.84                |                        |             |             |  |  |
| 20                           | 64QAM      | 50      | 50        | 16.33                      | 16.45                        | 16.55                |                        |             |             |  |  |
| 20                           | 64QAM      | 100     | 0         | 16.33                      | 16.45                        | 16.41                | 18                     | 0           |             |  |  |
| 20                           | 256QAM     | 1       | 0         | 16.77                      | 16.81                        | 16.78                |                        |             |             |  |  |
| 20                           | 256QAM     | 1       | 49        | 16.56                      | 16.72                        | 16.65                |                        |             |             |  |  |
| 20                           | 256QAM     | 1       | 99        | 16.56                      | 16.73                        | 16.64                |                        |             |             |  |  |
| 20                           | 256QAM     | 50      | 0         | 16.70                      | 16.71                        | 16.66                | 18                     | 0           |             |  |  |
| 20                           | 256QAM     | 50      | 24        | 16.47                      | 16.65                        | 16.62                |                        |             |             |  |  |
| 20                           | 256QAM     | 50      | 50        | 16.42                      | 16.61                        | 16.55                |                        |             |             |  |  |
| 20                           | 256QAM     | 100     | 0         | 16.40                      | 16.55                        | 16.42                |                        |             |             |  |  |
| Channel                      |            |         |           |                            |                              |                      | Tune-up limit<br>(dBm) |             | MPE<br>(dB) |  |  |
| Frequency (MHz)              |            |         |           |                            |                              |                      |                        |             |             |  |  |
| 15                           | QPSK       | 1       | 0         | 16.81                      | 16.77                        | 16.72                | 18                     | 0           |             |  |  |
| 15                           | QPSK       | 1       | 37        | 16.65                      | 16.72                        | 16.68                |                        |             |             |  |  |
| 15                           | QPSK       | 1       | 74        | 16.67                      | 16.73                        | 16.60                |                        |             |             |  |  |
| 15                           | QPSK       | 36      | 0         | 16.62                      | 16.68                        | 16.60                |                        |             |             |  |  |
| 15                           | QPSK       | 36      | 20        | 16.60                      | 16.62                        | 16.58                | 18                     | 0           |             |  |  |
| 15                           | QPSK       | 36      | 39        | 16.44                      | 16.60                        | 16.51                |                        |             |             |  |  |
| 15                           | QPSK       | 75      | 0         | 16.34                      | 16.55                        | 16.43                |                        |             |             |  |  |
| 15                           | 16QAM      | 1       | 0         | 16.74                      | 16.78                        | 16.57                |                        |             |             |  |  |
| 15                           | 16QAM      | 1       | 37        | 16.49                      | 16.62                        | 16.59                | 18                     | 0           |             |  |  |
| 15                           | 16QAM      | 1       | 74        | 16.38                      | 16.60                        | 16.53                |                        |             |             |  |  |
| 15                           | 16QAM      | 36      | 0         | 16.57                      | 16.59                        | 16.54                |                        |             |             |  |  |
| 15                           | 16QAM      | 36      | 20        | 16.49                      | 16.47                        | 16.55                |                        |             |             |  |  |
| 15                           | 16QAM      | 36      | 39        | 16.27                      | 16.47                        | 16.46                | 18                     | 0           |             |  |  |
| 15                           | 16QAM      | 75      | 0         | 16.35                      | 16.47                        | 16.38                |                        |             |             |  |  |
| 15                           | 64QAM      | 1       | 0         | 16.73                      | 16.69                        | 16.66                |                        |             |             |  |  |
| 15                           | 64QAM      | 1       | 37        | 16.46                      | 16.66                        | 16.57                |                        |             |             |  |  |
| 15                           | 64QAM      | 1       | 74        | 16.35                      | 16.66                        | 16.61                | 18                     | 0           |             |  |  |
| 15                           | 64QAM      | 36      | 0         | 16.57                      | 16.63                        | 16.47                |                        |             |             |  |  |
| 15                           | 64QAM      | 36      | 20        | 16.47                      | 16.59                        | 16.48                |                        |             |             |  |  |
| 15                           | 64QAM      | 36      | 39        | 16.35                      | 16.37                        | 16.49                |                        |             |             |  |  |
| 15                           | 256QAM     | 1       | 0         | 16.54                      | 16.70                        | 16.64                | 18                     | 0           |             |  |  |
| 15                           | 256QAM     | 1       | 37        | 16.43                      | 16.62                        | 16.55                |                        |             |             |  |  |
| 15                           | 256QAM     | 1       | 74        | 16.41                      | 16.60                        | 16.49                |                        |             |             |  |  |
| 15                           | 256QAM     | 36      | 0         | 16.40                      | 16.62                        | 16.63                |                        |             |             |  |  |
| 15                           | 256QAM     | 36      | 20        | 16.33                      | 16.40                        | 16.53                | 18                     | 0           |             |  |  |
| 15                           | 256QAM     | 36      | 39        | 16.29                      | 16.65                        | 16.41                |                        |             |             |  |  |
| 15                           | 256QAM     | 75      | 0         | 16.27                      | 16.47                        | 16.38                |                        |             |             |  |  |
| Channel                      |            |         |           |                            |                              |                      | Tune-up limit<br>(dBm) |             | MPE<br>(dB) |  |  |
| Frequency (MHz)              |            |         |           |                            |                              |                      |                        |             |             |  |  |
| 10                           | QPSK       | 1       | 0         | 16.60                      | 16.79                        | 16.62                | 18                     | 0           |             |  |  |
| 10                           | QPSK       | 1       | 25        | 16.53                      | 16.75                        | 16.74                |                        |             |             |  |  |
| 10                           | QPSK       | 1       | 49        | 16.68                      | 16.65                        | 16.80                |                        |             |             |  |  |
| 10                           | QPSK       | 25      | 0         | 16.60                      | 16.71                        | 16.61                |                        |             |             |  |  |
| 10                           | QPSK       | 25      | 13        | 16.68                      | 16.56                        | 16.65                | 18                     | 0           |             |  |  |
| 10                           | QPSK       | 25      | 25        | 16.43                      | 16.67                        | 16.54                |                        |             |             |  |  |
| 10                           | QPSK       | 50      | 0         | 16.30                      | 16.54                        | 16.49                |                        |             |             |  |  |
| 10                           | 16QAM      | 1       | 0         | 16.74                      | 16.79                        | 16.64                |                        |             |             |  |  |
| 10                           | 16QAM      | 1       | 25        | 16.51                      | 16.61                        | 16.59                | 18                     | 0           |             |  |  |
| 10                           | 16QAM      | 1       | 49        | 16.43                      | 16.62                        | 16.60                |                        |             |             |  |  |
| 10                           | 16QAM      | 25      | 0         | 16.61                      | 16.55                        | 16.54                |                        |             |             |  |  |
| 10                           | 16QAM      | 25      | 13        | 16.45                      | 16.43                        | 16.46                |                        |             |             |  |  |
| 10                           | 16QAM      | 25      | 25        | 16.33                      | 16.49                        | 16.48                | 18                     | 0           |             |  |  |
| 10                           | 16QAM      | 50      | 0         | 16.20                      | 16.47                        | 16.41                |                        |             |             |  |  |
| 10                           | 64QAM      | 1       | 0         | 16.71                      | 16.68                        | 16.61                |                        |             |             |  |  |
| 10                           | 64QAM      | 1       | 25        | 16.54                      | 16.60                        | 16.66                |                        |             |             |  |  |
| 10                           | 64QAM      | 1       | 49        | 16.45                      | 16.57                        | 16.51                | 18                     | 0           |             |  |  |
| 10                           | 64QAM      | 25      | 0         | 16.59                      | 16.47                        | 16.52                |                        |             |             |  |  |
| 10                           | 64QAM      | 25      | 13        | 16.30                      | 16.56                        | 16.54                |                        |             |             |  |  |
| 10                           | 64QAM      | 25      | 25        | 16.35                      | 16.40                        | 16.45                |                        |             |             |  |  |
| 10                           | 64QAM      | 50      | 0         | 16.24                      | 16.39                        | 16.27                | 18                     | 0           |             |  |  |
| 10                           | 256QAM     | 1       | 0         | 16.60                      | 16.74                        | 16.68                |                        |             |             |  |  |
| 10                           | 256QAM     | 1       | 25        | 16.40                      | 16.64                        | 16.56                |                        |             |             |  |  |
| 10                           | 256QAM     | 1       | 49        | 16.37                      | 16.59                        | 16.56                |                        |             |             |  |  |
| 10                           | 256QAM     | 25      | 0         | 16.62                      | 16.63                        | 16.56                | 18                     | 0           |             |  |  |
| 10                           | 256QAM     | 25      | 13        | 16.38                      | 16.40                        | 16.38                |                        |             |             |  |  |
| 10                           | 256QAM     | 25      | 25        | 16.35                      | 16.57                        | 16.46                |                        |             |             |  |  |
| 10                           | 256QAM     | 50      | 0         | 16.25                      | 16.49                        | 16.28                |                        |             |             |  |  |
| Channel                      |            |         |           |                            |                              |                      | Tune-up limit<br>(dBm) |             | MPE<br>(dB) |  |  |
| Frequency (MHz)              |            |         |           |                            |                              |                      |                        |             |             |  |  |
| 5                            | QPSK       | 1       | 0         | 16.70                      | 16.51                        | 16.75                | 18                     | 0           |             |  |  |
| 5                            | QPSK       | 1       | 12        | 16.56                      | 16.69                        | 16.68                |                        |             |             |  |  |
| 5                            | QPSK       | 1       | 24        | 16.50                      | 16.74                        | 16.69                |                        |             |             |  |  |
| 5                            | QPSK       | 12      | 0         | 16.60                      | 16.64                        | 16.61                |                        |             |             |  |  |
| 5                            | QPSK       | 12      | 7         | 16.56                      | 16.59                        | 16.63                | 18                     | 0           |             |  |  |
| 5                            | QPSK       | 12      | 13        | 16.39                      | 16.52                        | 16.54                |                        |             |             |  |  |
| 5                            | QPSK       | 25      | 0         | 16.30                      | 16.48                        | 16.42                |                        |             |             |  |  |
| 5                            | 16QAM      | 1       | 0         | 16.78                      | 16.80                        | 16.62                |                        |             |             |  |  |
| 5                            | 16QAM      | 1       | 12        | 16.52                      | 16.62                        | 16.51                | 18                     | 0           |             |  |  |
| 5                            | 16QAM      | 1       | 24        | 16.35                      | 16.67                        | 16.52                |                        |             |             |  |  |
| 5                            | 16QAM      | 12      | 0         | 16.60                      | 16.50                        | 16.52                |                        |             |             |  |  |
| 5                            | 16QAM      | 12      | 7         | 16.52                      | 16.44                        | 16.52                |                        |             |             |  |  |
| 5                            | 16QAM      | 12      | 13        | 16.20                      | 16.53                        | 16.43                | 18                     | 0           |             |  |  |
| 5                            | 64QAM      | 1       | 0         | 16.67                      | 16.71                        | 16.63                |                        |             |             |  |  |
| 5                            | 64QAM      | 1       | 12        | 16.53                      | 16.71                        | 16.62                |                        |             |             |  |  |
| 5                            | 64QAM      | 1       | 24        | 16.30                      | 16.64                        | 16.59                |                        |             |             |  |  |
| 5                            | 64QAM      | 12      | 0         | 16.62                      | 16.59                        | 16.57                | 18                     | 0           |             |  |  |
| 5                            | 64QAM      | 12      | 7         | 16.42                      | 16.62                        | 16.58                |                        |             |             |  |  |
| 5                            | 64QAM      | 12      | 13        | 16.34                      | 16.42                        | 16.50                |                        |             |             |  |  |
| 5                            | 64QAM      | 25      | 0         | 16.21                      | 16.52                        | 16.30                |                        |             |             |  |  |
| 5                            | 256QAM     | 1       | 0         | 16.67                      | 16.66                        | 16.65                | 18                     | 0           |             |  |  |
| 5                            | 256QAM     | 1       | 12        | 16.48                      | 16.63                        | 16.50                |                        |             |             |  |  |
| 5                            | 256QAM     | 1       | 24        | 16.45                      | 16.68                        | 16.63                | 18                     | 0           |             |  |  |
| 5                            | 256QAM     | 12      | 0         | 16.55                      | 16.41                        | 16.43                |                        |             |             |  |  |
| 5                            | 256QAM     | 12      | 7         | 16.27                      | 16.46                        | 16.27                | 18                     | 0           |             |  |  |
| 5                            | 256QAM     | 12      | 13        | 16.27                      | 16.41                        | 16.43                |                        |             |             |  |  |

## Reduced Power Mode for DS13 Simultaneous

| GSM850 Ant0 DSIG Simultaneous   |                         |                           |       |        |                     |                           |        |        |                     |         |       |       |                     |
|---------------------------------|-------------------------|---------------------------|-------|--------|---------------------|---------------------------|--------|--------|---------------------|---------|-------|-------|---------------------|
| GSM850                          |                         | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |        |        | Tune-up Limit (dBm) |         |       |       |                     |
| TX Channel                      |                         | 128                       | 189   | 251    |                     | 128                       | 189    | 251    |                     |         |       |       |                     |
| Frequency (MHz)                 |                         | 824.2                     | 834.4 | 843.8  |                     | 824.2                     | 834.4  | 843.8  |                     |         |       |       |                     |
| GSM 1 Tx slot                   |                         | 31.89                     | 31.91 | 31.78  | 32.90               | 22.89                     | 22.91  | 22.78  | 23.90               |         |       |       |                     |
| GPRS 1 Tx slot                  |                         | 31.86                     | 31.96 | 31.95  | 32.90               | 22.86                     | 22.96  | 22.95  | 23.90               |         |       |       |                     |
| GPRS 2 Tx slots                 |                         | 28.79                     | 28.91 | 28.88  | 29.90               | 22.79                     | 22.91  | 22.88  | 23.90               |         |       |       |                     |
| GPRS 3 Tx slots                 |                         | 27.11                     | 27.30 | 27.29  | 28.10               | 22.85                     | 23.04  | 23.03  | 23.84               |         |       |       |                     |
| GPRS 4 Tx slots                 |                         | 26.20                     | 26.23 | 26.10  | 26.90               | 23.20                     | 23.23  | 23.10  | 23.90               |         |       |       |                     |
| EDGE 1 Tx slot                  |                         | 26.14                     | 26.24 | 26.17  | 27.00               | 17.14                     | 17.24  | 17.17  | 18.00               |         |       |       |                     |
| EDGE 2 Tx slots                 |                         | 24.94                     | 25.10 | 25.00  | 26.00               | 18.94                     | 19.10  | 19.00  | 20.00               |         |       |       |                     |
| EDGE 3 Tx slots                 |                         | 22.92                     | 22.76 | 22.91  | 24.00               | 18.66                     | 18.50  | 18.65  | 19.74               |         |       |       |                     |
| EDGE 4 Tx slots                 |                         | 20.31                     | 20.76 | 20.47  | 22.00               | 17.81                     | 17.76  | 17.47  | 19.00               |         |       |       |                     |
| GSM1900 Ant0 DSIG Simultaneous  |                         |                           |       |        |                     |                           |        |        |                     |         |       |       |                     |
| GSM1900                         |                         | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |        |        | Tune-up Limit (dBm) |         |       |       |                     |
| TX Channel                      |                         | 512                       | 661   | 810    |                     | 512                       | 661    | 810    |                     |         |       |       |                     |
| Frequency (MHz)                 |                         | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880   | 1909.8 |                     |         |       |       |                     |
| GSM 1 Tx slot                   |                         | 25.62                     | 25.44 | 25.39  | 25.90               | 16.62                     | 16.44  | 16.39  | 16.90               |         |       |       |                     |
| GPRS 1 Tx slot                  |                         | 25.57                     | 25.63 | 25.23  | 25.90               | 16.57                     | 16.63  | 16.23  | 16.90               |         |       |       |                     |
| GPRS 2 Tx slots                 |                         | 21.52                     | 21.58 | 21.34  | 22.90               | 15.52                     | 15.58  | 15.34  | 16.90               |         |       |       |                     |
| GPRS 3 Tx slots                 |                         | 19.61                     | 19.70 | 19.44  | 21.10               | 15.35                     | 15.44  | 15.18  | 16.84               |         |       |       |                     |
| GPRS 4 Tx slots                 |                         | 18.66                     | 18.97 | 18.91  | 19.90               | 15.66                     | 15.97  | 15.91  | 16.90               |         |       |       |                     |
| EDGE 1 Tx slot                  |                         | 24.75                     | 24.84 | 24.43  | 25.90               | 15.75                     | 15.84  | 15.43  | 16.90               |         |       |       |                     |
| EDGE 2 Tx slots                 |                         | 21.85                     | 21.45 | 21.69  | 22.90               | 15.65                     | 15.45  | 15.69  | 16.90               |         |       |       |                     |
| EDGE 3 Tx slots                 |                         | 19.56                     | 19.54 | 19.15  | 21.10               | 15.30                     | 15.28  | 14.89  | 16.84               |         |       |       |                     |
| EDGE 4 Tx slots                 |                         | 18.42                     | 18.49 | 18.41  | 19.90               | 15.42                     | 15.49  | 15.41  | 16.90               |         |       |       |                     |
| WCDMA II Ant0 DSIG Simultaneous |                         |                           |       |        |                     |                           |        |        |                     |         |       |       |                     |
| 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   |                     | 4132    | 4182  | 4233  |                     |
| Rx Channel                      |                         | 9662                      | 9800  | 9938   |                     | 1537                      | 1638   | 1738   |                     | 4357    | 4407  | 4458  |                     |
| Frequency (MHz)                 |                         | 1852.4                    | 1860  | 1807.6 |                     | 1712.4                    | 1732.6 | 1752.6 |                     | 820.4   | 836.4 | 846.6 |                     |
| 3GPP Rel 99                     | AMR 12.2Kbps            | 15.77                     | 15.81 | 15.66  | 17.30               | 14.87                     | 14.97  | 14.90  | 16.40               | 22.25   | 22.47 | 22.46 | 23.50               |
| 3GPP Rel 99                     | RMC 12.2Kbps            | 15.75                     | 15.83 | 15.75  | 17.30               | 15.04                     | 15.11  | 15.10  | 16.40               | 22.44   | 22.68 | 22.63 | 23.60               |
| 3GPP Rel 6                      | HSDDPA Subtest-1        | 14.88                     | 15.03 | 14.85  | 16.30               | 13.76                     | 13.89  | 13.71  | 15.40               | 21.25   | 21.44 | 21.20 | 22.50               |
| 3GPP Rel 6                      | HSDDPA Subtest-2        | 14.93                     | 14.93 | 14.92  | 16.30               | 13.67                     | 13.88  | 13.87  | 15.40               | 21.25   | 21.46 | 21.34 | 22.50               |
| 3GPP Rel 6                      | HSDDPA Subtest-3        | 14.56                     | 14.41 | 14.54  | 15.80               | 13.55                     | 13.54  | 13.69  | 14.90               | 20.89   | 20.85 | 20.84 | 22.00               |
| 3GPP Rel 6                      | HSDDPA Subtest-4        | 14.33                     | 14.53 | 14.49  | 15.80               | 13.55                     | 13.67  | 13.66  | 14.90               | 20.90   | 20.96 | 21.07 | 22.00               |
| 3GPP Rel 8                      | DC-HSDPA Subtest-1      | 15.00                     | 15.08 | 14.79  | 16.30               | 13.78                     | 13.86  | 13.62  | 15.40               | 21.33   | 21.36 | 21.12 | 22.50               |
| 3GPP Rel 8                      | DC-HSDPA Subtest-2      | 14.80                     | 15.09 | 14.86  | 16.30               | 13.80                     | 13.91  | 13.79  | 15.40               | 21.22   | 21.49 | 21.26 | 22.50               |
| 3GPP Rel 8                      | DC-HSDPA Subtest-3      | 14.50                     | 14.58 | 14.49  | 15.80               | 13.59                     | 13.52  | 13.74  | 14.90               | 20.82   | 21.02 | 20.93 | 22.00               |
| 3GPP Rel 8                      | DC-HSDPA Subtest-4      | 14.32                     | 14.53 | 14.60  | 15.80               | 13.52                     | 13.73  | 13.74  | 14.90               | 20.81   | 20.98 | 20.92 | 22.00               |
| 3GPP Rel 6                      | HSUPA Subtest-1         | 14.81                     | 15.04 | 14.89  | 16.30               | 13.75                     | 13.82  | 13.76  | 15.40               | 21.23   | 21.42 | 21.26 | 22.50               |
| 3GPP Rel 6                      | HSUPA Subtest-2         | 12.96                     | 13.02 | 12.88  | 14.30               | 12.39                     | 12.50  | 12.50  | 13.40               | 19.39   | 19.44 | 19.44 | 20.50               |
| 3GPP Rel 6                      | HSUPA Subtest-3         | 13.96                     | 14.02 | 13.86  | 15.30               | 13.38                     | 13.49  | 13.32  | 14.40               | 20.31   | 20.40 | 20.29 | 21.50               |
| 3GPP Rel 6                      | HSUPA Subtest-4         | 12.95                     | 12.98 | 12.89  | 14.30               | 12.31                     | 12.50  | 12.38  | 13.40               | 19.27   | 19.37 | 19.24 | 20.50               |
| 3GPP Rel 6                      | HSUPA Subtest-5         | 14.84                     | 14.92 | 15.03  | 16.30               | 13.78                     | 13.81  | 13.95  | 15.40               | 21.39   | 21.39 | 21.48 | 22.50               |
| 3GPP Rel 7                      | HSPA+ (16QAM) Subtest-1 | 12.51                     | 12.54 | 12.35  | 13.80               | 11.55                     | 11.49  | 11.44  | 12.90               | 18.83   | 18.97 | 18.75 | 20.00               |

| Band 2 Ant0 DS13 Simultaneous |            |         |           |                               |                               |                               |                         |             |  |  |  |
|-------------------------------|------------|---------|-----------|-------------------------------|-------------------------------|-------------------------------|-------------------------|-------------|--|--|--|
| RF (MHz)                      | Modulation | RB Size | RB Offset | Power<br>Low<br>Power<br>High | Power<br>Low<br>Power<br>High | Power<br>Low<br>Power<br>High | Turn-on<br>Time<br>(μs) | MFR<br>(dB) |  |  |  |
| Channel                       |            |         |           |                               |                               |                               |                         |             |  |  |  |
| Frequency (MHz)               |            |         |           | 1807.5                        | 1800                          | 1800.5                        | Turn-on<br>Time<br>(μs) | MFR<br>(dB) |  |  |  |
| 20                            | QPSK       | 1       | 0         | 15.68                         | 15.67                         | 15.69                         |                         |             |  |  |  |
| 20                            | QPSK       | 1       | 48        | 15.45                         | 15.37                         | 15.60                         |                         | 16.7        |  |  |  |
| 20                            | QPSK       | 50      | 96        | 15.48                         | 15.50                         | 15.53                         |                         |             |  |  |  |
| 20                            | QPSK       | 50      | 80        | 15.48                         | 15.50                         | 15.50                         |                         |             |  |  |  |
| 20                            | QPSK       | 50      | 24        | 15.48                         | 15.35                         | 15.36                         |                         | 16.7        |  |  |  |
| 20                            | QPSK       | 50      | 48        | 15.48                         | 15.42                         | 15.53                         |                         |             |  |  |  |
| 20                            | QPSK       | 50      | 0         | 15.48                         | 15.00                         | 15.55                         |                         |             |  |  |  |
| 20                            | QPSK       | 1       | 0         | 15.56                         | 15.43                         | 15.47                         |                         |             |  |  |  |
| 20                            | QPSK       | 1       | 96        | 15.56                         | 15.48                         | 15.49                         |                         | 16.7        |  |  |  |
| 20                            | QPSK       | 1       | 99        | 15.58                         | 15.48                         | 15.48                         |                         |             |  |  |  |
| 20                            | QPSK       | 50      | 0         | 15.28                         | 15.46                         | 15.53                         |                         |             |  |  |  |
| 20                            | QPSK       | 50      | 24        | 15.28                         | 15.28                         | 15.30                         |                         | 16.7        |  |  |  |
| 20                            | QPSK       | 50      | 48        | 15.28                         | 15.40                         | 15.53                         |                         |             |  |  |  |
| 20                            | QPSK       | 50      | 96        | 15.45                         | 15.40                         | 15.57                         |                         | 0           |  |  |  |
| 20                            | QPSK       | 1020    | 0         | 15.39                         | 15.28                         | 15.40                         |                         |             |  |  |  |
| 20                            | QPSK       | 1020    | 96        | 15.39                         | 15.28                         | 15.40                         |                         | 16.7        |  |  |  |
| 20                            | QPSK       | 1       | 48        | 15.20                         | 15.56                         | 15.45                         |                         | 16.7        |  |  |  |
| 20                            | QPSK       | 1       | 99        | 15.44                         | 15.42                         | 15.48                         |                         |             |  |  |  |
| 20                            | QPSK       | 50      | 24        | 15.29                         | 15.39                         | 15.29                         |                         | 16.7        |  |  |  |
| 20                            | QPSK       | 50      | 96        | 15.30                         | 15.31                         | 15.40                         |                         |             |  |  |  |
| 20                            | QPSK       | 50      | 0         | 15.32                         | 15.18                         | 15.43                         |                         |             |  |  |  |
| 20                            | 256QAM     | 1       | 0         | 15.11                         | 15.24                         | 15.10                         |                         | 16.2        |  |  |  |
| 20                            | 256QAM     | 1       | 96        | 15.11                         | 15.24                         | 15.10                         |                         |             |  |  |  |
| 20                            | 256QAM     | 1       | 99        | 15.12                         | 15.05                         | 15.22                         |                         |             |  |  |  |
| 20                            | 256QAM     | 50      | 0         | 15.15                         | 15.28                         | 15.18                         |                         | 16.7        |  |  |  |
| 20                            | 256QAM     | 50      | 96        | 15.15                         | 15.28                         | 15.18                         |                         |             |  |  |  |
| 20                            | 256QAM     | 50      | 60        | 15.07                         | 15.02                         | 15.14                         |                         | 16.7        |  |  |  |
| 20                            | 256QAM     | 1020    | 0         | 15.15                         | 15.08                         | 15.04                         |                         |             |  |  |  |
| Channel                       |            |         |           |                               |                               |                               |                         |             |  |  |  |
| Frequency (MHz)               |            |         |           | 1807.5                        | 1800                          | 1800.5                        | Turn-on<br>Time<br>(μs) | MFR<br>(dB) |  |  |  |
| 15                            | QPSK       | 1       | 0         | 15.56                         | 15.56                         | 15.55                         |                         | 16.7        |  |  |  |
| 15                            | QPSK       | 1       | 96        | 15.48                         | 15.47                         | 15.50                         |                         |             |  |  |  |
| 15                            | QPSK       | 1       | 99        | 15.48                         | 15.44                         | 15.54                         |                         |             |  |  |  |
| 15                            | QPSK       | 36      | 0         | 15.45                         | 15.52                         | 15.57                         |                         | 16.7        |  |  |  |
| 15                            | QPSK       | 36      | 96        | 15.45                         | 15.52                         | 15.57                         |                         |             |  |  |  |
| 15                            | QPSK       | 36      | 99        | 15.35                         | 15.40                         | 15.55                         |                         | 16.7        |  |  |  |
| 15                            | QPSK       | 72      | 0         | 15.36                         | 15.47                         | 15.58                         |                         |             |  |  |  |
| 15                            | QPSK       | 72      | 96        | 15.36                         | 15.47                         | 15.58                         |                         | 16.7        |  |  |  |
| 15                            | QPSK       | 72      | 99        | 15.28                         | 15.56                         | 15.44                         |                         |             |  |  |  |
| 15                            | QPSK       | 1       | 37        | 15.57                         | 15.56                         | 15.54                         |                         |             |  |  |  |
| 15                            | QPSK       | 1       | 74        | 15.57                         | 15.53                         | 15.55                         |                         | 16.7        |  |  |  |
| 15                            | QPSK       | 36      | 24        | 15.30                         | 15.40                         | 15.45                         |                         |             |  |  |  |
| 15                            | QPSK       | 36      | 20        | 15.30                         | 15.40                         | 15.24                         |                         | 16.7        |  |  |  |
| 15                            | QPSK       | 36      | 39        | 15.36                         | 15.31                         | 15.29                         |                         |             |  |  |  |
| 15                            | QPSK       | 36      | 99        | 15.28                         | 15.48                         | 15.34                         |                         | 16.7        |  |  |  |
| 15                            | QPSK       | 1       | 0         | 15.29                         | 15.33                         | 15.35                         |                         |             |  |  |  |
| 15                            | QPSK       | 1       | 37        | 15.21                         | 15.41                         | 15.40                         |                         | 16.7        |  |  |  |
| 15                            | QPSK       | 1       | 74        | 15.21                         | 15.41                         | 15.40                         |                         |             |  |  |  |
| 15                            | QPSK       | 36      | 20        | 15.15                         | 15.39                         | 15.35                         |                         | 16.7        |  |  |  |
| 15                            | QPSK       | 36      | 24        | 15.15                         | 15.39                         | 15.35                         |                         |             |  |  |  |
| 15                            | QPSK       | 72      | 0         | 15.14                         | 15.34                         | 15.31                         |                         | 16.7        |  |  |  |
| 15                            | QPSK       | 72      | 96        | 15.07                         | 15.03                         | 15.15                         |                         |             |  |  |  |
| 15                            | 256QAM     | 1       | 0         | 15.04                         | 15.14                         | 15.09                         |                         | 16.2        |  |  |  |
| 15                            | 256QAM     | 1       | 96        | 15.04                         | 15.14                         | 15.09                         |                         |             |  |  |  |
| 15                            | 256QAM     | 1       | 99        | 15.11                         | 15.04                         | 15.21                         |                         | 16.7        |  |  |  |
| 15                            | 256QAM     | 36      | 0         | 15.07                         | 15.20                         | 15.21                         |                         |             |  |  |  |
| 15                            | 256QAM     | 36      | 96        | 15.07                         | 15.20                         | 15.21                         |                         | 16.7        |  |  |  |
| 15                            | 256QAM     | 36      | 99        | 15.04                         | 15.14                         | 15.21                         |                         |             |  |  |  |
| 15                            | 256QAM     | 72      | 0         | 15.07                         | 15.10                         | 15.15                         |                         | 16.2        |  |  |  |
| 15                            | 256QAM     | 72      | 96        | 15.07                         | 15.10                         | 15.15                         |                         |             |  |  |  |
| Channel                       |            |         |           |                               |                               |                               |                         |             |  |  |  |
| Frequency (MHz)               |            |         |           | 1807.5                        | 1800                          | 1800.5                        | Turn-on<br>Time<br>(μs) | MFR<br>(dB) |  |  |  |
| 10                            | QPSK       | 1       | 0         | 15.56                         | 15.56                         | 15.55                         |                         | 16.7        |  |  |  |
| 10                            | QPSK       | 1       | 48        | 15.56                         | 15.54                         | 15.55                         |                         |             |  |  |  |
| 10                            | QPSK       | 25      | 0         | 15.48                         | 15.60                         | 15.61                         |                         | 16.7        |  |  |  |
| 10                            | QPSK       | 25      | 48        | 15.42                         | 15.59                         | 15.62                         |                         |             |  |  |  |
| 10                            | QPSK       | 25      | 26        | 15.35                         | 15.44                         | 15.47                         |                         |             |  |  |  |
| 10                            | QPSK       | 50      | 0         | 15.42                         | 15.46                         | 15.53                         |                         |             |  |  |  |
| 10                            | QPSK       | 50      | 48        | 15.41                         | 15.41                         | 15.41                         |                         | 16.7        |  |  |  |
| 10                            | QPSK       | 1       | 26        | 15.28                         | 15.55                         | 15.44                         |                         |             |  |  |  |
| 10                            | QPSK       | 25      | 49        | 15.35                         | 15.49                         | 15.52                         |                         | 16.7        |  |  |  |
| 10                            | QPSK       | 25      | 26        | 15.30                         | 15.45                         | 15.45                         |                         |             |  |  |  |
| 10                            | QPSK       | 25      | 12        | 15.28                         | 15.52                         | 15.29                         |                         |             |  |  |  |
| 10                            | QPSK       | 50      | 0         | 15.42                         | 15.35                         | 15.43                         |                         | 16.7        |  |  |  |
| 10                            | QPSK       | 50      | 48        | 15.42                         | 15.35                         | 15.43                         |                         |             |  |  |  |
| 10                            | QPSK       | 1       | 0         | 15.31                         | 15.31                         | 15.29                         |                         |             |  |  |  |
| 10                            | QPSK       | 1       | 48        | 15.31                         | 15.31                         | 15.29                         |                         | 16.7        |  |  |  |
| 10                            | QPSK       | 25      | 0         | 15.29                         | 15.44                         | 15.44                         |                         |             |  |  |  |
| 10                            | QPSK       | 25      | 26        | 15.28                         | 15.19                         | 15.30                         |                         | 16.7        |  |  |  |
| 10                            | QPSK       | 50      | 0         | 15.43                         | 15.24                         | 15.33                         |                         |             |  |  |  |
| 10                            | QPSK       | 50      | 48        | 15.43                         | 15.24                         | 15.33                         |                         | 16.7        |  |  |  |
| 10                            | 256QAM     | 1       | 26        | 14.82                         | 15.01                         | 15.01                         |                         | 16.7        |  |  |  |
| 10                            | 256QAM     | 25      | 49        | 15.02                         | 15.01                         | 15.18                         |                         |             |  |  |  |
| 10                            | 256QAM     | 25      | 26        | 15.01                         | 15.01                         | 15.18                         |                         | 16.7        |  |  |  |
| 10                            | 256QAM     | 25      | 12        | 15.05                         | 15.09                         | 15.09                         |                         |             |  |  |  |
| 10                            | 256QAM     | 25      | 12        | 15.05                         | 15.09                         | 15.09                         |                         | 16.7        |  |  |  |
| 10                            | 256QAM     | 25      | 26        | 15.13                         | 15.03                         | 15.12                         |                         |             |  |  |  |
| Channel                       |            |         |           |                               |                               |                               |                         |             |  |  |  |
| Frequency (MHz)               |            |         |           | 1806.5                        | 1800                          | 1803.5                        | Turn-on<br>Time<br>(μs) | MFR<br>(dB) |  |  |  |
| 5                             | QPSK       | 1       | 0         | 15.56                         | 15.57                         | 15.58                         |                         | 16.7        |  |  |  |
| 5                             | QPSK       | 1       | 12        | 15.48                         | 15.47                         | 15.48                         |                         | 16.7        |  |  |  |
| 5                             | QPSK       | 1       | 24        | 15.55                         | 15.59                         | 15.48                         |                         |             |  |  |  |
| 5                             | QPSK       | 12      | 0         | 15.48                         | 15.57                         | 15.57                         |                         | 16.7        |  |  |  |
| 5                             | QPSK       | 12      | 7         | 15.41                         | 15.57                         | 15.47                         |                         |             |  |  |  |
| 5                             | QPSK       | 12      | 19        | 15.39                         | 15.48                         | 15.48                         |                         | 16.7        |  |  |  |
| 5                             | QPSK       | 12      | 31        | 15.35                         | 15.49                         | 15.39                         |                         |             |  |  |  |
| 5                             | QPSK       | 1       | 0         | 15.47                         | 15.48                         | 15.50                         |                         |             |  |  |  |
| 5                             | QPSK       | 1       | 12        | 15.32                         | 15.58                         | 15.39                         |                         | 16.7        |  |  |  |
| 5                             | QPSK       | 12      | 7         | 15.44                         | 15.44                         | 15.34                         |                         |             |  |  |  |
| 5                             | QPSK       | 12      | 0         | 15.28                         | 15.45                         | 15.45                         |                         | 16.7        |  |  |  |
| 5                             | QPSK       | 12      | 7         | 15.25                         | 15.43                         | 15.26                         |                         |             |  |  |  |
| 5                             | QPSK       | 12      | 19        | 15.48                         | 15.28                         | 15.38                         |                         | 16.7        |  |  |  |
| 5                             | QPSK       | 25      | 0         | 15.41                         | 15.28                         | 15.38                         |                         |             |  |  |  |
| 5                             | QPSK       | 25      | 12        | 15.21                         | 15.44                         | 15.39                         |                         | 16.7        |  |  |  |
| 5                             | QPSK       | 25      | 12        | 15.21                         | 15.44                         | 15.39                         |                         |             |  |  |  |
| 5                             | QPSK       | 1       | 24        | 15.49                         | 15.44                         | 15.48                         |                         | 16.7        |  |  |  |
| 5                             | QPSK       | 12      | 31        | 15.38                         | 15.38                         | 15.38                         |                         |             |  |  |  |
| 5                             | QPSK       | 12      | 0         | 15.22                         | 15.34                         | 15.12                         |                         | 16.7        |  |  |  |
| 5                             | QPSK       | 12      | 19        | 15.34                         | 15.20                         | 15.21                         |                         |             |  |  |  |
| 5                             | QPSK       | 25      | 12        | 15.14                         | 15.14                         | 15.14                         |                         | 16.7        |  |  |  |
| 5                             | 256QAM     | 1       | 12        | 14.98                         | 15.17                         | 15.15                         |                         | 16.7        |  |  |  |
| 5                             | 256QAM     | 1       | 12        | 14.98                         | 15.17                         | 15.15                         |                         |             |  |  |  |
| 5                             | 256QAM     | 12      | 0         | 15.09                         | 15.20                         | 15.17                         |                         | 16.7        |  |  |  |
| 5                             | 256QAM     | 12      | 7         | 14.97                         | 15.09                         | 15.02                         |                         | 16.7        |  |  |  |
| 5                             | 256QAM     | 25      | 0         | 15.03                         | 14.99                         | 15.00                         |                         |             |  |  |  |
| 5                             | 256QAM     | 25      | 0         | 15.03                         | 14.99                         | 15.00                         |                         | 16.7        |  |  |  |
| Channel                       |            |         |           |                               |                               |                               |                         |             |  |  |  |
| Frequency (MHz)               |            |         |           | 1801.5                        | 1800                          | 1801.5                        | Turn-on<br>Time<br>(μs) | MFR<br>(dB) |  |  |  |
| 3                             | QPSK       | 1       | 0         | 15.52                         | 15.54                         | 15.52                         |                         | 16.7        |  |  |  |
| 3                             | QPSK       | 1       | 48        | 15.41                         | 15.51                         | 15.55                         |                         | 16.7        |  |  |  |
| 3                             | QPSK       | 1       | 50        | 15.50                         | 15.54                         | 15.51                         |                         |             |  |  |  |
| 3                             | QPSK       | 8       | 0         | 15.50                         | 15.55                         | 15.57                         |                         | 16.7        |  |  |  |
| 3                             | QPSK       | 8       | 4         | 15.37                         | 15.53                         | 15.48                         |                         | 16.7        |  |  |  |
| 3                             | QPSK       | 14      | 0         | 15.38                         | 15.58                         | 15.53                         |                         |             |  |  |  |
| 3                             | QPSK       | 1       | 0         | 15.51                         | 15.41                         | 15.46                         |                         | 16.7        |  |  |  |
| 3                             | QPSK       | 1       | 48        | 15.33                         | 15.27                         | 15.38                         |                         |             |  |  |  |
| 3                             | QPSK       | 1       | 14        | 15.48                         | 15.52                         | 15.46                         |                         | 16.7        |  |  |  |
| 3                             | QPSK       | 8       | 0         | 15.30                         | 15.48                         | 15.58                         |                         |             |  |  |  |
| 3                             | QPSK       | 8       | 4         | 15.24                         | 15.41                         | 15.29                         |                         | 16.7        |  |  |  |
| 3                             | QPSK       | 8       | 7         | 15.39                         | 15.29                         | 15.35                         |                         |             |  |  |  |
| 3                             | QPSK       | 15      | 0         | 15.39                         | 15.30                         | 15.47                         |                         | 16.7        |  |  |  |
| 3                             | QPSK       | 15      | 8         | 15.01                         | 15.29                         | 15.17                         |                         |             |  |  |  |
| 3                             | QPSK       | 1       | 8         | 15.11                         | 15.46                         | 15.38                         |                         | 16.7        |  |  |  |
| 3                             | QPSK       | 1       | 14        | 15.38                         | 15.37                         | 15.37                         |                         |             |  |  |  |
| 3                             | QPSK       | 1       | 48        | 15.22                         | 15.38                         | 15.35                         |                         | 16.7        |  |  |  |
| 3                             | QPSK       | 8       | 4         | 15.21                         | 15.32                         | 15.15                         |                         |             |  |  |  |
| 3                             | QPSK       | 15      | 0         | 15.46                         | 15.14                         | 15.26                         |                         | 16.7        |  |  |  |
| 3                             | 256QAM     | 1       | 0         | 15.03                         | 15.19                         | 15.07                         |                         | 16.2        |  |  |  |
| 3                             | 256QAM     | 1       | 48        | 15.05                         | 15.08                         | 15.15                         |                         |             |  |  |  |
| 3                             | 256QAM     | 1       | 14        | 15.05                         | 15.08                         | 15.15                         |                         | 16.2        |  |  |  |
| 3                             | 256QAM     | 8       | 0         | 15.08                         | 15.25                         | 15.17                         |                         |             |  |  |  |
| 3                             | 256QAM     | 8       | 4         | 15.06                         | 14.98                         | 15.08                         |                         | 16.7        |  |  |  |
| 3                             | 256QAM     | 8       | 8         | 15.06                         | 14.97                         | 15.14                         |                         |             |  |  |  |
| 3                             | 256QAM     | 15      | 0         | 15.10                         | 15.08                         | 15.05                         |                         |             |  |  |  |
| Channel                       |            |         |           |                               |                               |                               |                         |             |  |  |  |
| Frequency (MHz)               |            |         |           | 1802.7                        | 1800                          | 1800.3                        | Turn-on<br>Time<br>(μs) | MFR<br>(dB) |  |  |  |
| 1.4                           | QPSK       | 1       | 0         | 15.55                         | 15.57                         | 15.53                         |                         | 16.7        |  |  |  |
| 1.4                           | QPSK       | 1       | 48        | 15.41                         | 15.51                         | 15.55                         |                         | 16.7        |  |  |  |
| 1.4                           | QPSK       | 1       | 50        | 15.50                         | 15.54                         | 15.51                         |                         |             |  |  |  |
| 1.4                           | QPSK       | 8       | 0         | 15.46                         | 15.56                         | 15.58                         |                         | 16.7        |  |  |  |
| 1.4                           | QPSK       | 8       | 4         | 15.38                         | 15.48                         | 15.45                         |                         |             |  |  |  |
| 1.4                           | QPSK       | 3       | 0         | 15.37                         | 15.42                         | 15.43                         |                         |             |  |  |  |
| 1.4                           | QPSK       | 6       | 0         | 15.35                         | 15.54                         | 15.38                         |                         | 16.7        |  |  |  |
| 1.4                           | QPSK       | 1       | 5         | 15.43                         | 15.43                         | 15.43                         |                         |             |  |  |  |
| 1.4                           | QPSK       | 1       | 7         | 15.26                         | 15.56                         | 15.44                         |                         |             |  |  |  |
| 1.4                           | QPSK       | 1       | 5         | 15.52                         | 15.41                         | 15.43                         |                         | 16.7        |  |  |  |
| 1.4                           | QPSK       |         |           |                               |                               |                               |                         |             |  |  |  |

| Band 4 Ant0 DS3 Simultaneous |            |         |           |                       |                       |                       |                       |                           |             |  |  |
|------------------------------|------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------|-------------|--|--|
| RF (MHz)                     | Modulation | RB Size | RB Offset | Power (dBm)<br>200655 | Power (dBm)<br>201705 | Power (dBm)<br>201705 | Power (dBm)<br>201705 | Turn-on<br>Ch. Freq. (dB) | MFR<br>(dB) |  |  |
| Channel                      |            |         |           |                       |                       |                       |                       |                           |             |  |  |
| Frequency (MHz)              |            |         |           |                       |                       |                       |                       |                           |             |  |  |
| 20                           | QPSK       | 1       | 0         | 15.00                 | 15.20                 | 15.14                 |                       |                           |             |  |  |
| 20                           | QPSK       | 1       | 49        | 15.00                 | 15.10                 | 14.93                 |                       | 16.1                      | 0           |  |  |
| 20                           | QPSK       | 1       | 98        | 15.00                 | 15.23                 | 15.03                 |                       |                           |             |  |  |
| 20                           | QPSK       | 1       | 147       | 15.00                 | 15.22                 | 15.04                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 24        | 14.98                 | 14.81                 | 14.91                 |                       | 16.1                      | 0           |  |  |
| 20                           | QPSK       | 50      | 73        | 14.98                 | 14.80                 | 14.93                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 122       | 14.98                 | 14.80                 | 14.93                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 171       | 14.94                 | 15.10                 | 14.88                 |                       | 16.1                      | 0           |  |  |
| 20                           | QPSK       | 50      | 220       | 14.94                 | 15.16                 | 14.84                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 269       | 14.95                 | 14.98                 | 14.96                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 318       | 14.95                 | 15.06                 | 14.86                 |                       | 16.1                      | 0           |  |  |
| 20                           | QPSK       | 50      | 367       | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 416       | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 465       | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 514       | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 563       | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 612       | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 661       | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 710       | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 759       | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 808       | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 857       | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 906       | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 955       | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1004      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1053      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1102      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1151      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1200      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1249      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1298      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1347      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1396      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1445      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1494      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1543      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1592      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1641      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1690      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1739      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1788      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1837      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1886      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1935      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 1984      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2033      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2082      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2131      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2180      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2229      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2278      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2327      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2376      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2425      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2474      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2523      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2572      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2621      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2670      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2719      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2768      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2817      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2866      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2915      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 2964      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3013      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3062      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3111      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3160      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3209      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3258      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3307      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3356      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3405      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3454      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3503      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3552      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3601      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3650      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3699      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3748      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3797      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3846      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3895      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3944      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 3993      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4042      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4091      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4140      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4189      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4238      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4287      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4336      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4385      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4434      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4483      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4532      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4581      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4630      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4679      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4728      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4777      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4826      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4875      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4924      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 4973      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5022      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5071      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5120      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5169      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5218      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5267      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5316      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5365      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5414      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5463      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5512      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5561      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5610      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5659      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5708      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5757      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5806      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5855      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5904      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 5953      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6002      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6051      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6100      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6149      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6198      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6247      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6296      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6345      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6394      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6443      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6492      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6541      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6590      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6639      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6688      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6737      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6786      | 14.95                 | 15.08                 | 14.86                 |                       |                           |             |  |  |
| 20                           | QPSK       | 50      | 6835      | 14.95</               |                       |                       |                       |                           |             |  |  |

| Band 5 Ant0 DS13 Simultaneous |                 |         |           |                                 |                                    |                                  |                      |             |    |   |
|-------------------------------|-----------------|---------|-----------|---------------------------------|------------------------------------|----------------------------------|----------------------|-------------|----|---|
| IM (MHz)                      | Modulation      | RB Size | RB Offset | Power<br>Low<br>Power<br>204650 | Power<br>Middle<br>Power<br>204650 | Power<br>High<br>Power<br>204650 | Turn-on<br>time (μs) | MPR<br>(dB) |    |   |
| Channel                       |                 |         |           |                                 |                                    |                                  |                      |             |    |   |
| 10                            | QPSK            | 1       | 0         | 21.37                           | 21.37                              | 21.37                            |                      |             |    |   |
| 10                            | QPSK            | 1       | 26        | 21.31                           | 21.44                              | 21.38                            |                      |             | 23 | 0 |
| 10                            | QPSK            | 1       | 49        | 21.33                           | 21.38                              | 21.33                            |                      |             |    |   |
| 10                            | QPSK            | 1       | 71        | 21.31                           | 21.38                              | 21.31                            |                      |             |    |   |
| 10                            | QPSK            | 20      | 12        | 21.05                           | 21.12                              | 21.12                            |                      |             | 23 | 0 |
| 10                            | QPSK            | 20      | 25        | 21.08                           | 21.20                              | 21.10                            |                      |             |    |   |
| 10                            | QPSK            | 20      | 38        | 21.06                           | 21.09                              | 21.09                            |                      |             |    |   |
| 10                            | QPSK            | 1       | 0         | 21.36                           | 21.41                              | 21.37                            |                      |             |    |   |
| 10                            | QPSK            | 1       | 26        | 21.31                           | 21.36                              | 21.32                            |                      |             | 23 | 0 |
| 10                            | QPSK            | 1       | 49        | 21.34                           | 21.34                              | 21.34                            |                      |             |    |   |
| 10                            | QPSK            | 1       | 71        | 21.34                           | 21.34                              | 21.34                            |                      |             |    |   |
| 10                            | QPSK            | 20      | 12        | 20.88                           | 20.93                              | 20.93                            |                      |             | 22 |   |
| 10                            | QPSK            | 20      | 25        | 20.88                           | 20.89                              | 20.87                            |                      |             |    |   |
| 10                            | QPSK            | 20      | 38        | 20.88                           | 20.88                              | 20.88                            |                      |             |    |   |
| 10                            | QPSK            | 50      | 0         | 20.47                           | 20.55                              | 20.49                            |                      |             |    |   |
| 10                            | QPSK            | 50      | 1         | 20.56                           | 20.59                              | 20.56                            |                      |             |    |   |
| 10                            | QPSK            | 50      | 2         | 20.56                           | 20.59                              | 20.56                            |                      |             |    |   |
| 10                            | QPSK            | 50      | 3         | 20.56                           | 20.59                              | 20.56                            |                      |             |    |   |
| 10                            | QPSK            | 20      | 12        | 19.96                           | 19.96                              | 19.97                            |                      |             | 21 | 2 |
| 10                            | QPSK            | 20      | 25        | 19.93                           | 19.93                              | 19.93                            |                      |             |    |   |
| 10                            | QPSK            | 20      | 38        | 19.93                           | 19.93                              | 19.93                            |                      |             |    |   |
| 10                            | QPSK            | 50      | 0         | 17.61                           | 17.61                              | 17.61                            |                      |             | 19 | 4 |
| 10                            | QPSK            | 50      | 1         | 17.62                           | 17.62                              | 17.62                            |                      |             |    |   |
| 10                            | QPSK            | 50      | 2         | 17.62                           | 17.62                              | 17.62                            |                      |             |    |   |
| 10                            | QPSK            | 50      | 3         | 17.62                           | 17.62                              | 17.62                            |                      |             |    |   |
| 10                            | QPSK            | 20      | 12        | 17.48                           | 17.49                              | 17.39                            |                      |             | 19 | 4 |
| 10                            | QPSK            | 20      | 25        | 17.48                           | 17.48                              | 17.39                            |                      |             |    |   |
| 10                            | QPSK            | 20      | 38        | 17.48                           | 17.48                              | 17.39                            |                      |             |    |   |
| Channel                       |                 |         |           |                                 |                                    |                                  |                      |             |    |   |
|                               | Frequency (MHz) |         |           | 20465                           | 20465                              | 20465                            | Turn-on<br>time (μs) | MPR<br>(dB) |    |   |
| 5                             | QPSK            | 1       | 0         | 21.02                           | 21.02                              | 21.04                            |                      |             |    |   |
| 5                             | QPSK            | 1       | 12        | 21.24                           | 21.41                              | 21.10                            |                      |             |    |   |
| 5                             | QPSK            | 1       | 24        | 21.21                           | 21.31                              | 21.10                            |                      |             |    |   |
| 5                             | QPSK            | 1       | 36        | 21.07                           | 21.07                              | 21.07                            |                      |             |    |   |
| 5                             | QPSK            | 12      | 1         | 21.30                           | 21.29                              | 21.56                            |                      |             | 23 | 0 |
| 5                             | QPSK            | 12      | 13        | 21.31                           | 21.40                              | 21.41                            |                      |             |    |   |
| 5                             | QPSK            | 12      | 14        | 21.30                           | 21.39                              | 21.39                            |                      |             |    |   |
| 5                             | QPSK            | 1       | 0         | 21.19                           | 21.33                              | 21.22                            |                      |             |    |   |
| 5                             | QPSK            | 1       | 12        | 21.49                           | 21.35                              | 21.10                            |                      |             | 23 | 0 |
| 5                             | QPSK            | 1       | 24        | 21.22                           | 21.14                              | 21.07                            |                      |             |    |   |
| 5                             | QPSK            | 12      | 1         | 20.59                           | 20.64                              | 20.52                            |                      |             |    |   |
| 5                             | QPSK            | 12      | 2         | 20.63                           | 20.63                              | 20.62                            |                      |             | 22 | 1 |
| 5                             | QPSK            | 12      | 3         | 20.62                           | 20.66                              | 20.62                            |                      |             |    |   |
| 5                             | QPSK            | 20      | 0         | 20.34                           | 20.44                              | 20.43                            |                      |             |    |   |
| 5                             | QPSK            | 20      | 1         | 20.53                           | 20.38                              | 20.38                            |                      |             |    |   |
| 5                             | QPSK            | 20      | 2         | 20.46                           | 20.39                              | 20.39                            |                      |             |    |   |
| 5                             | QPSK            | 1       | 24        | 20.47                           | 20.38                              | 20.38                            |                      |             |    |   |
| 5                             | QPSK            | 12      | 9         | 19.44                           | 19.48                              | 19.35                            |                      |             | 21 | 2 |
| 5                             | QPSK            | 12      | 10        | 19.45                           | 19.45                              | 19.35                            |                      |             |    |   |
| 5                             | QPSK            | 12      | 11        | 19.35                           | 19.35                              | 19.35                            |                      |             |    |   |
| 5                             | QPSK            | 12      | 13        | 19.35                           | 19.35                              | 19.35                            |                      |             |    |   |
| 5                             | QPSK            | 12      | 14        | 19.35                           | 19.35                              | 19.35                            |                      |             |    |   |
| 5                             | QPSK            | 1       | 24        | 17.49                           | 17.51                              | 17.35                            |                      |             | 19 | 4 |
| 5                             | QPSK            | 1       | 36        | 17.45                           | 17.51                              | 17.41                            |                      |             |    |   |
| 5                             | QPSK            | 12      | 1         | 17.47                           | 17.51                              | 17.39                            |                      |             | 19 | 4 |
| 5                             | QPSK            | 12      | 13        | 17.47                           | 17.50                              | 17.39                            |                      |             |    |   |
| 5                             | QPSK            | 12      | 14        | 17.39                           | 17.39                              | 17.39                            |                      |             |    |   |
| Channel                       |                 |         |           |                                 |                                    |                                  |                      |             |    |   |
|                               | Frequency (MHz) |         |           | 20465                           | 20465                              | 20465                            | Turn-on<br>time (μs) | MPR<br>(dB) |    |   |
| 3                             | QPSK            | 1       | 0         | 21.15                           | 21.15                              | 21.17                            |                      |             |    |   |
| 3                             | QPSK            | 1       | 1         | 21.15                           | 21.14                              | 21.14                            |                      |             |    |   |
| 3                             | QPSK            | 1       | 2         | 21.22                           | 21.33                              | 21.20                            |                      |             | 23 | 0 |
| 3                             | QPSK            | 1       | 4         | 21.28                           | 21.34                              | 21.27                            |                      |             |    |   |
| 3                             | QPSK            | 1       | 6         | 21.15                           | 21.13                              | 21.13                            |                      |             |    |   |
| 3                             | QPSK            | 8       | 0         | 21.23                           | 21.34                              | 21.48                            |                      |             | 23 | 0 |
| 3                             | QPSK            | 8       | 1         | 21.20                           | 21.35                              | 21.48                            |                      |             |    |   |
| 3                             | QPSK            | 8       | 2         | 21.22                           | 21.22                              | 21.21                            |                      |             |    |   |
| 3                             | QPSK            | 1       | 0         | 21.23                           | 21.41                              | 21.18                            |                      |             |    |   |
| 3                             | QPSK            | 1       | 8         | 21.22                           | 21.19                              | 21.28                            |                      |             | 23 | 0 |
| 3                             | QPSK            | 8       | 0         | 20.65                           | 20.68                              | 20.56                            |                      |             |    |   |
| 3                             | QPSK            | 8       | 4         | 20.52                           | 20.47                              | 20.47                            |                      |             | 22 | 1 |
| 3                             | QPSK            | 8       | 8         | 20.48                           | 20.48                              | 20.48                            |                      |             |    |   |
| 3                             | QPSK            | 16      | 0         | 20.44                           | 20.44                              | 20.36                            |                      |             |    |   |
| 3                             | QPSK            | 16      | 4         | 20.56                           | 20.54                              | 20.51                            |                      |             |    |   |
| 3                             | QPSK            | 16      | 8         | 20.52                           | 20.43                              | 20.35                            |                      |             | 22 | 1 |
| 3                             | QPSK            | 1       | 14        | 20.46                           | 20.39                              | 20.46                            |                      |             |    |   |
| 3                             | QPSK            | 8       | 8         | 19.56                           | 19.58                              | 19.47                            |                      |             |    |   |
| 3                             | QPSK            | 8       | 12        | 19.41                           | 19.49                              | 19.41                            |                      |             |    |   |
| 3                             | QPSK            | 8       | 16        | 19.49                           | 19.44                              | 19.43                            |                      |             |    |   |
| 3                             | QPSK            | 15      | 0         | 19.35                           | 19.45                              | 19.43                            |                      |             |    |   |
| 3                             | QPSK            | 15      | 4         | 19.47                           | 19.56                              | 19.43                            |                      |             |    |   |
| 3                             | QPSK            | 8       | 1         | 17.27                           | 17.55                              | 17.35                            |                      |             | 19 | 4 |
| 3                             | QPSK            | 1       | 14        | 17.49                           | 17.57                              | 17.50                            |                      |             |    |   |
| 3                             | QPSK            | 8       | 1         | 17.45                           | 17.56                              | 17.48                            |                      |             |    |   |
| 3                             | QPSK            | 8       | 4         | 17.43                           | 17.50                              | 17.46                            |                      |             |    |   |
| 3                             | QPSK            | 8       | 7         | 17.51                           | 17.62                              | 17.58                            |                      |             | 19 | 4 |
| 3                             | QPSK            | 8       | 10        | 17.41                           | 17.42                              | 17.31                            |                      |             |    |   |
| Channel                       |                 |         |           |                                 |                                    |                                  |                      |             |    |   |
|                               | Frequency (MHz) |         |           | 20467                           | 20467                              | 20463                            | Turn-on<br>time (μs) | MPR<br>(dB) |    |   |
| 14                            | QPSK            | 1       | 0         | 21.23                           | 21.23                              | 21.27                            |                      |             |    |   |
| 14                            | QPSK            | 1       | 1         | 21.23                           | 21.19                              | 21.17                            |                      |             |    |   |
| 14                            | QPSK            | 1       | 2         | 21.23                           | 21.19                              | 21.25                            |                      |             | 23 | 0 |
| 14                            | QPSK            | 1       | 3         | 21.23                           | 21.23                              | 21.24                            |                      |             |    |   |
| 14                            | QPSK            | 3       | 0         | 21.14                           | 21.30                              | 21.16                            |                      |             |    |   |
| 14                            | QPSK            | 3       | 1         | 21.13                           | 21.15                              | 21.26                            |                      |             |    |   |
| 14                            | QPSK            | 3       | 2         | 21.25                           | 21.28                              | 21.21                            |                      |             | 23 | 0 |
| 14                            | QPSK            | 1       | 0         | 21.18                           | 21.38                              | 21.16                            |                      |             |    |   |
| 14                            | QPSK            | 1       | 1         | 21.12                           | 21.35                              | 21.29                            |                      |             |    |   |
| 14                            | QPSK            | 1       | 2         | 21.11                           | 21.32                              | 21.29                            |                      |             |    |   |
| 14                            | QPSK            | 1       | 3         | 21.27                           | 21.27                              | 21.28                            |                      |             |    |   |
| 14                            | QPSK            | 3       | 0         | 21.17                           | 21.33                              | 21.10                            |                      |             | 23 | 0 |
| 14                            | QPSK            | 3       | 1         | 21.01                           | 21.26                              | 21.07                            |                      |             |    |   |
| 14                            | QPSK            | 3       | 2         | 21.15                           | 21.15                              | 21.15                            |                      |             |    |   |
| 14                            | QPSK            | 6       | 0         | 20.39                           | 20.34                              | 20.30                            |                      |             | 22 | 1 |
| 14                            | QPSK            | 6       | 1         | 20.54                           | 20.72                              | 20.51                            |                      |             |    |   |
| 14                            | QPSK            | 6       | 2         | 20.54                           | 20.54                              | 20.54                            |                      |             |    |   |
| 14                            | QPSK            | 6       | 3         | 20.55                           | 20.70                              | 20.54                            |                      |             | 22 | 1 |
| 14                            | QPSK            | 6       | 4         | 20.85                           | 20.61                              | 20.48                            |                      |             |    |   |
| 14                            | QPSK            | 6       | 5         | 20.58                           | 20.58                              | 20.58                            |                      |             |    |   |
| 14                            | QPSK            | 6       | 6         | 20.57                           | 20.52                              | 20.47                            |                      |             |    |   |
| 14                            | QPSK            | 6       | 8         | 19.83                           | 19.68                              | 19.68                            |                      |             | 21 | 2 |
| 14                            | QPSK            | 6       | 9         | 17.53                           | 17.53                              | 17.53                            |                      |             |    |   |
| 14                            | QPSK            | 6       | 1         | 17.27                           | 17.46                              | 17.38                            |                      |             |    |   |
| 14                            | QPSK            | 6       | 2         | 17.27                           | 17.45                              | 17.34                            |                      |             |    |   |
| 14                            | QPSK            | 6       | 3         | 17.25                           | 17.48                              | 17.48                            |                      |             | 19 | 4 |
| 14                            | QPSK            | 6       | 4         | 17.19                           | 17.25                              | 17.25                            |                      |             |    |   |
| 14                            | QPSK            | 3       | 3         | 17.26                           | 17.23                              | 17.23                            |                      |             |    |   |

| Band 12 Ant0 DS13 Simultaneous |            |         |           |                           |                            |                            |                          |             |  |  |  |  |  |  |  |  |
|--------------------------------|------------|---------|-----------|---------------------------|----------------------------|----------------------------|--------------------------|-------------|--|--|--|--|--|--|--|--|
| BW (MHz)                       | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch./Freq. | Power<br>Main<br>Ch./Freq. | Power<br>High<br>Ch./Freq. | Tune-up<br>Int'l<br>(dB) | MPE<br>(dB) |  |  |  |  |  |  |  |  |
| Channel                        |            |         |           |                           |                            |                            |                          |             |  |  |  |  |  |  |  |  |
| Frequency (MHz)                |            |         |           |                           |                            |                            |                          |             |  |  |  |  |  |  |  |  |
| 10                             | QPSK       | 1       | 0         | 22.67                     | 22.71                      | 22.60                      | 24                       | 0           |  |  |  |  |  |  |  |  |
| 10                             | QPSK       | 1       | 25        | 22.67                     | 22.68                      | 22.49                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | QPSK       | 1       | 49        | 22.64                     | 22.67                      | 22.66                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | QPSK       | 25      | 0         | 21.63                     | 21.79                      | 21.66                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | QPSK       | 25      | 12        | 21.41                     | 21.47                      | 21.73                      | 23                       | 1           |  |  |  |  |  |  |  |  |
| 10                             | QPSK       | 25      | 25        | 21.46                     | 21.60                      | 21.68                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | QPSK       | 50      | 0         | 21.53                     | 21.52                      | 21.32                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | 16QAM      | 1       | 0         | 21.69                     | 21.65                      | 21.73                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | 16QAM      | 1       | 25        | 21.70                     | 21.79                      | 21.71                      | 23                       | 1           |  |  |  |  |  |  |  |  |
| 10                             | 16QAM      | 1       | 49        | 21.62                     | 21.76                      | 21.65                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | 16QAM      | 25      | 0         | 20.80                     | 20.65                      | 20.67                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | 16QAM      | 25      | 12        | 20.72                     | 20.76                      | 20.59                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | 16QAM      | 25      | 25        | 20.74                     | 20.79                      | 20.61                      | 22                       | 2           |  |  |  |  |  |  |  |  |
| 10                             | 16QAM      | 50      | 0         | 20.54                     | 20.66                      | 20.53                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | 64QAM      | 1       | 0         | 20.70                     | 20.69                      | 20.65                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | 64QAM      | 1       | 25        | 20.57                     | 20.67                      | 20.54                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | 64QAM      | 1       | 49        | 20.62                     | 20.59                      | 20.66                      | 22                       | 2           |  |  |  |  |  |  |  |  |
| 10                             | 64QAM      | 25      | 0         | 19.62                     | 19.59                      | 19.55                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | 64QAM      | 25      | 12        | 19.52                     | 19.63                      | 19.36                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | 64QAM      | 25      | 25        | 19.58                     | 19.68                      | 19.45                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | 64QAM      | 50      | 0         | 19.63                     | 19.59                      | 19.45                      | 21                       | 3           |  |  |  |  |  |  |  |  |
| 10                             | 256QAM     | 1       | 0         | 17.69                     | 17.77                      | 17.59                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | 256QAM     | 1       | 25        | 17.60                     | 17.77                      | 17.59                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | 256QAM     | 1       | 49        | 17.66                     | 17.79                      | 17.42                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | 256QAM     | 25      | 0         | 17.55                     | 17.71                      | 17.62                      | 19                       | 5           |  |  |  |  |  |  |  |  |
| 10                             | 256QAM     | 25      | 12        | 17.55                     | 17.69                      | 17.59                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | 256QAM     | 25      | 25        | 17.63                     | 17.79                      | 17.57                      |                          |             |  |  |  |  |  |  |  |  |
| 10                             | 256QAM     | 50      | 0         | 17.60                     | 17.63                      | 17.47                      |                          |             |  |  |  |  |  |  |  |  |
| Channel                        |            |         |           |                           |                            |                            |                          |             |  |  |  |  |  |  |  |  |
| Frequency (MHz)                |            |         |           |                           |                            |                            |                          |             |  |  |  |  |  |  |  |  |
| 5                              | QPSK       | 1       | 0         | 22.67                     | 22.68                      | 22.62                      | 24                       | 0           |  |  |  |  |  |  |  |  |
| 5                              | QPSK       | 1       | 12        | 22.60                     | 22.48                      | 22.41                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | QPSK       | 1       | 24        | 22.39                     | 22.55                      | 22.42                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | QPSK       | 12      | 0         | 21.61                     | 21.68                      | 21.61                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | QPSK       | 12      | 7         | 21.34                     | 21.42                      | 21.61                      | 23                       | 1           |  |  |  |  |  |  |  |  |
| 5                              | QPSK       | 12      | 13        | 21.33                     | 21.53                      | 21.46                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | QPSK       | 25      | 0         | 21.46                     | 21.37                      | 21.66                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | 16QAM      | 1       | 0         | 21.65                     | 21.71                      | 21.69                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | 16QAM      | 1       | 12        | 21.57                     | 21.66                      | 21.67                      | 23                       | 1           |  |  |  |  |  |  |  |  |
| 5                              | 16QAM      | 1       | 24        | 21.54                     | 21.69                      | 21.59                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | 16QAM      | 12      | 0         | 20.76                     | 20.60                      | 20.63                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | 16QAM      | 12      | 7         | 20.70                     | 20.71                      | 20.47                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | 16QAM      | 12      | 13        | 20.70                     | 20.62                      | 20.52                      | 22                       | 2           |  |  |  |  |  |  |  |  |
| 5                              | 16QAM      | 25      | 0         | 20.40                     | 20.63                      | 20.59                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | 64QAM      | 1       | 0         | 20.58                     | 20.60                      | 20.52                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | 64QAM      | 1       | 12        | 20.42                     | 20.60                      | 20.48                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | 64QAM      | 1       | 24        | 20.59                     | 20.56                      | 20.59                      | 22                       | 2           |  |  |  |  |  |  |  |  |
| 5                              | 64QAM      | 12      | 0         | 19.52                     | 19.43                      | 19.37                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | 64QAM      | 12      | 7         | 19.48                     | 19.55                      | 19.25                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | 64QAM      | 12      | 13        | 19.51                     | 19.04                      | 19.35                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | 64QAM      | 25      | 0         | 19.45                     | 19.45                      | 19.36                      | 21                       | 3           |  |  |  |  |  |  |  |  |
| 5                              | 256QAM     | 1       | 0         | 17.62                     | 17.60                      | 17.43                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | 256QAM     | 1       | 12        | 17.63                     | 17.63                      | 17.54                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | 256QAM     | 1       | 24        | 17.51                     | 17.63                      | 17.26                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | 256QAM     | 12      | 0         | 17.65                     | 17.66                      | 17.46                      | 19                       | 5           |  |  |  |  |  |  |  |  |
| 5                              | 256QAM     | 12      | 7         | 17.51                     | 17.52                      | 17.49                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | 256QAM     | 12      | 13        | 17.60                     | 17.89                      | 17.59                      |                          |             |  |  |  |  |  |  |  |  |
| 5                              | 256QAM     | 25      | 0         | 17.61                     | 17.38                      | 17.24                      |                          |             |  |  |  |  |  |  |  |  |
| Channel                        |            |         |           |                           |                            |                            |                          |             |  |  |  |  |  |  |  |  |
| Frequency (MHz)                |            |         |           |                           |                            |                            |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | QPSK       | 1       | 0         | 22.62                     | 22.64                      | 22.55                      | 24                       | 0           |  |  |  |  |  |  |  |  |
| 1.4                            | QPSK       | 1       | 8         | 22.39                     | 22.63                      | 22.42                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | QPSK       | 1       | 16        | 22.37                     | 22.63                      | 22.48                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | QPSK       | 8       | 0         | 21.49                     | 21.66                      | 21.48                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | QPSK       | 8       | 4         | 21.29                     | 21.39                      | 21.67                      | 23                       | 1           |  |  |  |  |  |  |  |  |
| 1.4                            | QPSK       | 8       | 12        | 21.43                     | 21.45                      | 21.46                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | QPSK       | 15      | 0         | 21.46                     | 21.43                      | 21.22                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 16QAM      | 1       | 0         | 21.69                     | 21.69                      | 21.68                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 16QAM      | 1       | 8         | 21.52                     | 21.71                      | 21.68                      | 23                       | 1           |  |  |  |  |  |  |  |  |
| 1.4                            | 16QAM      | 1       | 16        | 21.48                     | 21.60                      | 21.54                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 16QAM      | 8       | 0         | 20.79                     | 20.54                      | 20.68                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 16QAM      | 8       | 4         | 20.57                     | 20.68                      | 20.60                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 16QAM      | 8       | 7         | 19.63                     | 20.71                      | 20.63                      | 22                       | 2           |  |  |  |  |  |  |  |  |
| 1.4                            | 16QAM      | 15      | 0         | 20.40                     | 20.58                      | 20.40                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 64QAM      | 1       | 0         | 20.55                     | 20.58                      | 20.48                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 64QAM      | 1       | 16        | 20.45                     | 20.44                      | 20.54                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 64QAM      | 8       | 0         | 19.52                     | 19.46                      | 19.46                      | 21                       | 3           |  |  |  |  |  |  |  |  |
| 1.4                            | 64QAM      | 8       | 4         | 19.46                     | 19.45                      | 19.32                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 64QAM      | 8       | 7         | 19.65                     | 19.52                      | 19.29                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 64QAM      | 15      | 0         | 19.43                     | 19.36                      | 19.39                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 256QAM     | 1       | 0         | 17.65                     | 17.66                      | 17.46                      | 19                       | 5           |  |  |  |  |  |  |  |  |
| 1.4                            | 256QAM     | 1       | 8         | 17.63                     | 17.63                      | 17.54                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 256QAM     | 1       | 16        | 17.63                     | 17.61                      | 17.36                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 256QAM     | 8       | 0         | 17.65                     | 17.63                      | 17.60                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 256QAM     | 8       | 4         | 17.65                     | 17.63                      | 17.46                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 256QAM     | 8       | 7         | 17.60                     | 17.75                      | 17.42                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 256QAM     | 15      | 0         | 17.61                     | 17.38                      | 17.24                      |                          |             |  |  |  |  |  |  |  |  |
| Channel                        |            |         |           |                           |                            |                            |                          |             |  |  |  |  |  |  |  |  |
| Frequency (MHz)                |            |         |           |                           |                            |                            |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | QPSK       | 1       | 0         | 22.64                     | 22.63                      | 22.44                      | 24                       | 0           |  |  |  |  |  |  |  |  |
| 1.4                            | QPSK       | 1       | 3         | 22.39                     | 22.63                      | 22.53                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | QPSK       | 1       | 5         | 22.39                     | 22.62                      | 22.35                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | QPSK       | 3       | 0         | 22.35                     | 22.63                      | 22.42                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | QPSK       | 3       | 1         | 22.36                     | 22.35                      | 22.37                      | 23                       | 1           |  |  |  |  |  |  |  |  |
| 1.4                            | QPSK       | 3       | 3         | 22.34                     | 22.48                      | 22.30                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | QPSK       | 3       | 1         | 21.47                     | 21.70                      | 21.52                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 16QAM      | 1       | 0         | 21.44                     | 21.71                      | 21.60                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 16QAM      | 1       | 3         | 21.37                     | 21.55                      | 21.33                      | 23                       | 1           |  |  |  |  |  |  |  |  |
| 1.4                            | 16QAM      | 1       | 8         | 21.26                     | 21.63                      | 21.33                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 16QAM      | 3       | 0         | 21.41                     | 21.62                      | 21.40                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 16QAM      | 3       | 1         | 21.30                     | 21.54                      | 21.21                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 16QAM      | 3       | 3         | 21.44                     | 21.47                      | 21.38                      | 22                       | 2           |  |  |  |  |  |  |  |  |
| 1.4                            | 16QAM      | 6       | 0         | 20.45                     | 20.42                      | 20.24                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 64QAM      | 1       | 0         | 20.58                     | 20.79                      | 20.55                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 64QAM      | 1       | 3         | 20.61                     | 20.48                      | 20.48                      | 21                       | 3           |  |  |  |  |  |  |  |  |
| 1.4                            | 64QAM      | 1       | 8         | 20.62                     | 20.75                      | 20.56                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 64QAM      | 1       | 16        | 20.59                     | 20.48                      | 20.58                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 64QAM      | 3       | 0         | 20.70                     | 20.49                      | 20.52                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 64QAM      | 3       | 3         | 20.58                     | 20.44                      | 20.45                      | 21                       | 3           |  |  |  |  |  |  |  |  |
| 1.4                            | 64QAM      | 3       | 5         | 20.68                     | 20.41                      | 20.41                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 256QAM     | 1       | 0         | 17.67                     | 17.46                      | 17.58                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 256QAM     | 1       | 3         | 17.67                     | 17.50                      | 17.20                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 256QAM     | 1       | 5         | 17.67                     | 17.42                      | 17.20                      | 19                       | 5           |  |  |  |  |  |  |  |  |
| 1.4                            | 256QAM     | 3       | 0         | 17.68                     | 17.44                      | 17.43                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 256QAM     | 3       | 1         | 17.26                     | 17.26                      | 17.31                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 256QAM     | 3       | 3         | 17.26                     | 17.17                      | 17.26                      |                          |             |  |  |  |  |  |  |  |  |
| 1.4                            | 256QAM     | 6       | 0         | 17.44                     | 17.21                      | 17.25                      | 19                       | 5           |  |  |  |  |  |  |  |  |

| Band 25 Ant0 DS13 Simultaneous |            |          |            |                            |                            |                             |                    |          |  |
|--------------------------------|------------|----------|------------|----------------------------|----------------------------|-----------------------------|--------------------|----------|--|
| BW (MHz)                       | Modulation | RIS Size | RIS Offset | Power Low Ch / Freq. 20140 | Power Mid Ch / Freq. 20140 | Power High Ch / Freq. 20140 | Turn-up time (sec) | MPE (dB) |  |
| Channel                        |            |          |            |                            |                            |                             |                    |          |  |
| Frequency (MHz)                |            |          |            |                            |                            |                             |                    |          |  |
| 20                             | QPSK       | 1        | 0          | 16.71                      | 16.75                      | 16.73                       |                    |          |  |
| 20                             | QPSK       | 1        | 48         | 15.40                      | 15.58                      | 15.47                       | 16.7               | 0        |  |
| 20                             | QPSK       | 1        | 96         | 16.70                      | 16.89                      | 16.66                       |                    |          |  |
| 20                             | QPSK       | 50       | 0          | 15.60                      | 15.71                      | 15.70                       |                    |          |  |
| 20                             | QPSK       | 50       | 24         | 15.51                      | 15.69                      | 15.61                       | 16.7               | 0        |  |
| 20                             | QPSK       | 50       | 50         | 15.54                      | 15.66                      | 15.64                       |                    |          |  |
| 20                             | QPSK       | 100      | 0          | 15.56                      | 15.66                      | 15.64                       |                    |          |  |
| 20                             | QPSK       | 100      | 0          | 15.56                      | 15.59                      | 15.60                       |                    |          |  |
| 20                             | 16QAM      | 1        | 48         | 15.46                      | 15.67                      | 15.55                       | 16.7               | 0        |  |
| 20                             | 16QAM      | 1        | 96         | 15.66                      | 15.62                      | 15.54                       |                    |          |  |
| 20                             | 16QAM      | 50       | 0          | 15.45                      | 15.61                      | 15.69                       |                    |          |  |
| 20                             | 16QAM      | 50       | 24         | 15.40                      | 15.61                      | 15.39                       | 16.7               | 0        |  |
| 20                             | 16QAM      | 50       | 50         | 15.50                      | 15.70                      | 15.48                       |                    |          |  |
| 20                             | 16QAM      | 100      | 0          | 15.50                      | 15.40                      | 15.37                       |                    |          |  |
| 20                             | 16QAM      | 1        | 0          | 15.47                      | 15.45                      | 15.47                       |                    |          |  |
| 20                             | 16QAM      | 1        | 48         | 15.31                      | 15.61                      | 15.30                       | 16.7               | 0        |  |
| 20                             | 16QAM      | 1        | 96         | 15.50                      | 15.54                      | 15.38                       |                    |          |  |
| 20                             | 16QAM      | 50       | 0          | 15.36                      | 15.48                      | 15.70                       |                    |          |  |
| 20                             | 16QAM      | 50       | 24         | 15.33                      | 15.52                      | 15.31                       | 16.7               | 0        |  |
| 20                             | 16QAM      | 50       | 50         | 15.47                      | 15.35                      | 15.35                       |                    |          |  |
| 20                             | 16QAM      | 100      | 0          | 15.60                      | 15.34                      | 15.51                       |                    |          |  |
| 20                             | 256QAM     | 1        | 0          | 15.60                      | 15.34                      | 15.51                       |                    |          |  |
| 20                             | 256QAM     | 1        | 48         | 15.12                      | 15.21                      | 15.12                       | 16.7               | 0        |  |
| 20                             | 256QAM     | 1        | 96         | 15.23                      | 15.13                      | 15.29                       |                    |          |  |
| 20                             | 256QAM     | 50       | 0          | 15.27                      | 15.16                      | 15.26                       |                    |          |  |
| 20                             | 256QAM     | 50       | 24         | 15.15                      | 15.18                      | 15.18                       | 16.7               | 0        |  |
| 20                             | 256QAM     | 50       | 50         | 15.22                      | 15.15                      | 15.27                       |                    |          |  |
| 20                             | 256QAM     | 100      | 0          | 15.10                      | 15.16                      | 15.14                       |                    |          |  |
| Channel                        |            |          |            |                            |                            |                             |                    |          |  |
| Frequency (MHz)                |            |          |            |                            |                            |                             |                    |          |  |
| 15                             | QPSK       | 1        | 0          | 16.07                      | 16.00                      | 16.07                       |                    |          |  |
| 15                             | QPSK       | 1        | 48         | 15.68                      | 15.71                      | 15.68                       | 16.7               | 0        |  |
| 15                             | QPSK       | 1        | 96         | 15.66                      | 15.50                      | 15.64                       |                    |          |  |
| 15                             | QPSK       | 36       | 0          | 15.47                      | 15.68                      | 15.61                       |                    |          |  |
| 15                             | QPSK       | 36       | 24         | 15.41                      | 15.52                      | 15.43                       | 16.7               | 0        |  |
| 15                             | QPSK       | 36       | 36         | 15.53                      | 15.45                      | 15.50                       |                    |          |  |
| 15                             | QPSK       | 75       | 0          | 15.47                      | 15.50                      | 15.50                       |                    |          |  |
| 15                             | 16QAM      | 1        | 0          | 15.48                      | 15.50                      | 15.50                       |                    |          |  |
| 15                             | 16QAM      | 1        | 37         | 15.37                      | 15.58                      | 15.49                       | 16.7               | 0        |  |
| 15                             | 16QAM      | 1        | 48         | 15.30                      | 15.32                      | 15.32                       |                    |          |  |
| 15                             | 16QAM      | 36       | 0          | 15.37                      | 15.49                      | 15.61                       |                    |          |  |
| 15                             | 16QAM      | 36       | 20         | 15.29                      | 15.52                      | 15.28                       | 16.7               | 0        |  |
| 15                             | 16QAM      | 36       | 37         | 15.10                      | 15.54                      | 15.38                       |                    |          |  |
| 15                             | 16QAM      | 75       | 0          | 15.41                      | 15.38                      | 15.40                       |                    |          |  |
| 15                             | 16QAM      | 1        | 0          | 15.40                      | 15.31                      | 15.38                       | 16.7               | 0        |  |
| 15                             | 16QAM      | 1        | 48         | 15.31                      | 15.34                      | 15.30                       |                    |          |  |
| 15                             | 16QAM      | 1        | 74         | 15.45                      | 15.47                      | 15.45                       |                    |          |  |
| 15                             | 16QAM      | 36       | 0          | 15.38                      | 15.43                      | 15.54                       |                    |          |  |
| 15                             | 16QAM      | 36       | 45         | 15.20                      | 15.45                      | 15.34                       | 16.7               | 0        |  |
| 15                             | 16QAM      | 36       | 59         | 15.40                      | 15.23                      | 15.37                       |                    |          |  |
| 15                             | 16QAM      | 75       | 0          | 15.43                      | 15.36                      | 15.38                       |                    |          |  |
| 15                             | 16QAM      | 1        | 0          | 15.40                      | 15.32                      | 15.32                       |                    |          |  |
| 15                             | 16QAM      | 1        | 37         | 14.97                      | 15.12                      | 15.04                       | 16.7               | 0        |  |
| 15                             | 256QAM     | 1        | 74         | 15.14                      | 15.05                      | 15.12                       |                    |          |  |
| 15                             | 256QAM     | 36       | 0          | 15.22                      | 15.08                      | 15.16                       |                    |          |  |
| 15                             | 256QAM     | 36       | 20         | 15.06                      | 15.08                      | 15.07                       | 16.7               | 0        |  |
| 15                             | 256QAM     | 36       | 36         | 15.09                      | 15.02                      | 15.14                       |                    |          |  |
| 15                             | 256QAM     | 75       | 0          | 15.01                      | 15.04                      | 15.04                       |                    |          |  |
| Channel                        |            |          |            |                            |                            |                             |                    |          |  |
| Frequency (MHz)                |            |          |            |                            |                            |                             |                    |          |  |
| 10                             | QPSK       | 1        | 0          | 16.00                      | 16.00                      | 16.00                       |                    |          |  |
| 10                             | QPSK       | 1        | 48         | 15.61                      | 15.56                      | 15.53                       | 16.7               | 0        |  |
| 10                             | QPSK       | 1        | 96         | 15.58                      | 15.49                      | 15.66                       |                    |          |  |
| 10                             | QPSK       | 20       | 0          | 15.07                      | 15.67                      | 15.67                       |                    |          |  |
| 10                             | QPSK       | 12       | 0          | 15.42                      | 15.50                      | 15.46                       | 16.7               | 0        |  |
| 10                             | QPSK       | 25       | 25         | 15.48                      | 15.44                      | 15.47                       |                    |          |  |
| 10                             | QPSK       | 26       | 0          | 15.44                      | 15.46                      | 15.38                       |                    |          |  |
| 10                             | 16QAM      | 1        | 0          | 15.51                      | 15.51                      | 15.52                       |                    |          |  |
| 10                             | 16QAM      | 1        | 25         | 15.38                      | 15.60                      | 15.39                       | 16.7               | 0        |  |
| 10                             | 16QAM      | 1        | 48         | 15.50                      | 15.56                      | 15.56                       |                    |          |  |
| 10                             | 16QAM      | 25       | 0          | 15.30                      | 15.58                      | 15.37                       |                    |          |  |
| 10                             | 16QAM      | 25       | 12         | 15.25                      | 15.50                      | 15.38                       | 16.7               | 0        |  |
| 10                             | 16QAM      | 25       | 14         | 15.43                      | 15.44                      | 15.38                       |                    |          |  |
| 10                             | 16QAM      | 50       | 0          | 15.38                      | 15.37                      | 15.40                       |                    |          |  |
| 10                             | 16QAM      | 1        | 0          | 15.43                      | 15.31                      | 15.48                       | 16.7               | 0        |  |
| 10                             | 16QAM      | 1        | 48         | 15.27                      | 15.34                      | 15.40                       |                    |          |  |
| 10                             | 16QAM      | 1        | 49         | 15.55                      | 15.44                      | 15.40                       |                    |          |  |
| 10                             | 16QAM      | 25       | 0          | 15.24                      | 15.38                      | 15.37                       |                    |          |  |
| 10                             | 16QAM      | 25       | 14         | 15.30                      | 15.44                      | 15.38                       | 16.7               | 0        |  |
| 10                             | 16QAM      | 25       | 25         | 15.41                      | 15.29                      | 15.40                       |                    |          |  |
| 10                             | 16QAM      | 50       | 0          | 15.43                      | 15.30                      | 15.37                       |                    |          |  |
| 10                             | 256QAM     | 1        | 0          | 15.12                      | 15.27                      | 15.16                       |                    |          |  |
| 10                             | 256QAM     | 1        | 25         | 14.98                      | 15.15                      | 15.07                       | 16.7               | 0        |  |
| 10                             | 256QAM     | 1        | 49         | 15.10                      | 15.03                      | 15.14                       |                    |          |  |
| 10                             | 256QAM     | 25       | 0          | 15.10                      | 15.18                      | 15.10                       |                    |          |  |
| 10                             | 256QAM     | 25       | 12         | 15.00                      | 15.09                      | 15.01                       | 16.7               | 0        |  |
| 10                             | 256QAM     | 25       | 25         | 15.10                      | 15.04                      | 15.10                       |                    |          |  |
| 10                             | 256QAM     | 50       | 0          | 15.02                      | 15.12                      | 15.02                       |                    |          |  |
| Channel                        |            |          |            |                            |                            |                             |                    |          |  |
| Frequency (MHz)                |            |          |            |                            |                            |                             |                    |          |  |
| 5                              | QPSK       | 1        | 0          | 15.83                      | 15.71                      | 15.63                       |                    |          |  |
| 5                              | QPSK       | 1        | 12         | 15.56                      | 15.65                      | 15.58                       | 16.7               | 0        |  |
| 5                              | QPSK       | 1        | 24         | 15.63                      | 15.58                      | 15.54                       |                    |          |  |
| 5                              | QPSK       | 10       | 0          | 15.53                      | 15.60                      | 15.54                       |                    |          |  |
| 5                              | QPSK       | 12       | 7          | 15.40                      | 15.58                      | 15.36                       | 16.7               | 0        |  |
| 5                              | QPSK       | 12       | 13         | 15.51                      | 15.47                      | 15.55                       |                    |          |  |
| 5                              | QPSK       | 25       | 0          | 15.52                      | 15.46                      | 15.38                       |                    |          |  |
| 5                              | 16QAM      | 1        | 0          | 15.50                      | 15.55                      | 15.50                       |                    |          |  |
| 5                              | 16QAM      | 1        | 12         | 15.33                      | 15.53                      | 15.42                       | 16.7               | 0        |  |
| 5                              | 16QAM      | 1        | 24         | 15.48                      | 15.46                      | 15.40                       |                    |          |  |
| 5                              | 16QAM      | 12       | 0          | 15.30                      | 15.60                      | 15.60                       |                    |          |  |
| 5                              | 16QAM      | 12       | 7          | 15.25                      | 15.51                      | 15.36                       | 16.7               | 0        |  |
| 5                              | 16QAM      | 14       | 1          | 15.37                      | 15.34                      | 15.34                       |                    |          |  |
| 5                              | 16QAM      | 25       | 0          | 15.49                      | 15.34                      | 15.51                       |                    |          |  |
| 5                              | 16QAM      | 1        | 0          | 15.46                      | 15.42                      | 15.36                       | 16.7               | 0        |  |
| 5                              | 16QAM      | 1        | 12         | 15.37                      | 15.46                      | 15.38                       |                    |          |  |
| 5                              | 16QAM      | 1        | 24         | 15.54                      | 15.46                      | 15.40                       |                    |          |  |
| 5                              | 16QAM      | 12       | 0          | 15.27                      | 15.37                      | 15.39                       |                    |          |  |
| 5                              | 16QAM      | 12       | 1          | 15.30                      | 15.51                      | 15.20                       | 16.7               | 0        |  |
| 5                              | 16QAM      | 12       | 13         | 15.40                      | 15.23                      | 15.36                       |                    |          |  |
| 5                              | 16QAM      | 25       | 0          | 15.43                      | 15.21                      | 15.44                       |                    |          |  |
| 5                              | 256QAM     | 1        | 0          | 15.00                      | 15.25                      | 15.15                       |                    |          |  |
| 5                              | 256QAM     | 1        | 12         | 14.98                      | 15.19                      | 15.04                       | 16.7               | 0        |  |
| 5                              | 256QAM     | 1        | 24         | 15.16                      | 15.11                      | 15.11                       |                    |          |  |
| 5                              | 256QAM     | 12       | 0          | 15.25                      | 15.24                      | 15.16                       |                    |          |  |
| 5                              | 256QAM     | 12       | 7          | 14.96                      | 15.09                      | 15.01                       | 16.7               | 0        |  |
| 5                              | 256QAM     | 12       | 13         | 15.17                      | 15.06                      | 15.06                       |                    |          |  |
| 5                              | 256QAM     | 25       | 0          | 15.00                      | 15.03                      | 15.11                       |                    |          |  |
| Channel                        |            |          |            |                            |                            |                             |                    |          |  |
| Frequency (MHz)                |            |          |            |                            |                            |                             |                    |          |  |
| 3                              | QPSK       | 1        | 0          | 15.84                      | 15.71                      | 15.63                       |                    |          |  |
| 3                              | QPSK       | 1        | 8          | 15.58                      | 15.61                      | 15.53                       | 16.7               | 0        |  |
| 3                              | QPSK       | 1        | 14         | 15.63                      | 15.48                      | 15.61                       |                    |          |  |
| 3                              | QPSK       | 8        | 4          | 15.37                      | 15.46                      | 15.42                       | 16.7               | 0        |  |
| 3                              | QPSK       | 8        | 7          | 15.51                      | 15.47                      | 15.53                       |                    |          |  |
| 3                              | QPSK       | 15       | 0          | 15.51                      | 15.52                      | 15.53                       |                    |          |  |
| 3                              | 16QAM      | 1        | 0          | 15.51                      | 15.49                      | 15.48                       |                    |          |  |
| 3                              | 16QAM      | 1        | 8          | 15.35                      | 15.60                      | 15.35                       | 16.7               | 0        |  |
| 3                              | 16QAM      | 1        | 14         | 15.65                      | 15.50                      | 15.44                       |                    |          |  |
| 3                              | 16QAM      | 8        | 0          | 15.37                      | 15.50                      | 15.56                       |                    |          |  |
| 3                              | 16QAM      | 8        | 4          | 15.28                      | 15.53                      | 15.35                       | 16.7               | 0        |  |
| 3                              | 16QAM      | 8        | 15         | 15.38                      | 15.43                      | 15.29                       |                    |          |  |
| 3                              | 16QAM      | 15       | 0          | 15.38                      | 15.36                      | 15.40                       |                    |          |  |
| 3                              | 16QAM      | 1        | 0          | 15.44                      | 15.40                      | 15.43                       |                    |          |  |
| 3                              | 16QAM      | 8        | 8          | 15.18                      | 15.49                      | 15.38                       | 16.7               | 0        |  |
| 3                              | 16QAM      | 1        | 14         | 15.53                      | 15.43                      | 15.46                       |                    |          |  |
| 3                              | 16QAM      | 8        | 0          | 15.20                      | 15.47                      | 15.27                       |                    |          |  |
| 3                              | 16QAM      | 8        | 7          | 15.39                      | 15.26                      | 15.39                       | 16.7               | 0        |  |
| 3                              | 256QAM     | 1        | 0          | 15.00                      | 15.30                      | 15.19                       |                    |          |  |
| 3                              | 256QAM     | 1        | 8          | 15.06                      | 15.17                      | 15.06                       | 16.7               | 0        |  |
| 3                              | 256QAM     | 1        | 15         | 15.07                      | 15.09                      | 15.09                       |                    |          |  |
| 3                              | 256QAM     | 8        | 0          | 15.10                      | 15.21                      | 15.25                       |                    |          |  |
| 3                              | 256QAM     | 8        | 4          | 15.00                      | 15.06                      | 14.99                       | 16.7               | 0        |  |
| 3                              | 256QAM     | 8        | 7          | 15.12                      | 15.03                      | 15.07                       |                    |          |  |
| 3                              | 256QAM     | 15       | 0          | 15.00                      | 15.11                      | 15.10                       |                    |          |  |
| Channel                        |            |          |            |                            |                            |                             |                    |          |  |
| Frequency (MHz)                |            |          |            |                            |                            |                             |                    |          |  |
| 1.4                            | QPSK       | 1        | 0          | 15.50                      | 15.71                      | 15.70                       |                    |          |  |
| 1.4                            | QPSK       | 1        | 3          | 15.52                      | 15.61                      | 15.58                       | 16.7               | 0        |  |
| 1.4                            | QPSK       | 1        | 0          | 15.38                      | 15.49                      | 15.59                       |                    |          |  |
| 1.4                            | QPSK       | 3        | 0          | 15.53                      | 15.67                      | 15.67                       |                    |          |  |
| 1.4                            | QPSK       | 3        | 0          | 15.45                      | 15.52                      | 15.49                       |                    |          |  |
| 1.4                            | QPSK       | 3        | 0          | 15.50                      | 15.62                      | 15.62                       |                    |          |  |
| 1.4                            | QPSK       | 3        | 0          | 15.50                      | 15.61                      | 15.59                       |                    |          |  |
| 1.4                            | QPSK       | 3        | 0          | 15.50                      | 15.59                      | 15.58                       |                    |          |  |
| 1.4                            | QPSK       | 3        | 0          | 15.50                      | 15.58                      | 15.58                       |                    |          |  |
| 1.4                            | QPSK       | 3        | 0          | 15.50                      | 15.53                      | 15.54                       |                    |          |  |
| 1.4                            | QPSK       | 3        | 0          | 15.50                      | 15.52                      | 15.54                       |                    |          |  |
| 1.4                            | QPSK       | 3        | 0          | 15.50                      | 15.49                      | 15.50                       |                    |          |  |
| 1.4                            | QPSK       | 3        | 0          | 15.50                      | 15.41                      | 15.38                       | 16.7               | 0        |  |
| 1.4                            | QPSK       | 3        | 0          | 15.50                      | 15.47                      | 15.49                       |                    |          |  |
| 1.4                            | QPSK       | 3        | 0          | 15.50                      | 15.44                      | 15.47                       |                    |          |  |
| 1.4                            | QPSK       | 3        | 0          | 15.54                      | 15.46                      | 15.47                       | 16.7               | 0        |  |
| 1.4                            | QPSK       | 3        | 0          | 15.31                      | 15.33                      | 15.33                       |                    |          |  |
| 1.4                            | QPSK       | 3        | 0          | 15.39                      | 15.37                      | 15.37                       |                    |          |  |
| 1.4                            | QPSK       | 3        | 0          | 15.39                      | 15.34                      | 15.34                       |                    |          |  |
| 1.4                            | QPSK       | 3        | 0          | 15.43                      | 15.23                      | 15.37                       | 16.7               | 0        |  |
| 1.4                            | QPSK       | 3        | 0          | 15.43                      | 15.23                      | 15.37                       |                    |          |  |

| Band 4 Ant1 DS13 Simultaneous |            |         |           |                           |                           |                            |                     |             |  |  |                     |             |  |  |
|-------------------------------|------------|---------|-----------|---------------------------|---------------------------|----------------------------|---------------------|-------------|--|--|---------------------|-------------|--|--|
| BW (MHz)                      | Modulation | RB Size | RB Offset | Power<br>Max<br>Ch./Freq. | Power<br>Min<br>Ch./Freq. | Power<br>High<br>Ch./Freq. | Time-up<br>Int. (s) | MPE<br>(dB) |  |  |                     |             |  |  |
| Channel                       |            |         |           |                           |                           |                            |                     |             |  |  |                     |             |  |  |
| Frequency (MHz)               |            |         |           | 1717.5                    | 1732.5                    | 1747.5                     |                     |             |  |  |                     |             |  |  |
| 20                            | QPSK       | 1       | 0         | 20.61                     | 20.65                     | 20.63                      | 22.1                | 0           |  |  |                     |             |  |  |
| 20                            | QPSK       | 1       | 49        | 20.60                     | 20.52                     | 20.61                      |                     |             |  |  |                     |             |  |  |
| 20                            | QPSK       | 1       | 99        | 20.48                     | 20.49                     | 20.48                      |                     |             |  |  |                     |             |  |  |
| 20                            | QPSK       | 50      | 0         | 20.47                     | 20.52                     | 20.47                      |                     |             |  |  |                     |             |  |  |
| 20                            | QPSK       | 50      | 24        | 20.37                     | 20.44                     | 20.39                      |                     |             |  |  |                     |             |  |  |
| 20                            | QPSK       | 50      | 50        | 20.43                     | 20.36                     | 20.35                      | 22.1                | 0           |  |  |                     |             |  |  |
| 20                            | QPSK       | 100     | 0         | 20.30                     | 20.41                     | 20.33                      |                     |             |  |  |                     |             |  |  |
| 20                            | QPSK       | 1       | 0         | 20.48                     | 20.48                     | 20.48                      |                     |             |  |  |                     |             |  |  |
| 20                            | HQAM       | 1       | 99        | 20.44                     | 20.39                     | 20.35                      |                     |             |  |  |                     |             |  |  |
| 20                            | HQAM       | 50      | 0         | 20.43                     | 20.45                     | 20.38                      |                     |             |  |  |                     |             |  |  |
| 20                            | HQAM       | 1       | 49        | 20.36                     | 20.43                     | 20.32                      | 22                  | 0.1         |  |  |                     |             |  |  |
| 20                            | HQAM       | 50      | 24        | 19.98                     | 20.04                     | 19.95                      |                     |             |  |  |                     |             |  |  |
| 20                            | HQAM       | 50      | 50        | 19.98                     | 20.05                     | 20.00                      |                     |             |  |  |                     |             |  |  |
| 20                            | HQAM       | 100     | 0         | 20.18                     | 20.32                     | 20.17                      |                     |             |  |  |                     |             |  |  |
| 20                            | HQAM       | 1       | 0         | 20.73                     | 20.73                     | 20.72                      |                     |             |  |  |                     |             |  |  |
| 20                            | HQAM       | 1       | 99        | 17.48                     | 17.57                     | 17.43                      | 19                  | 3.1         |  |  |                     |             |  |  |
| 20                            | SSBQAM     | 50      | 0         | 17.56                     | 17.64                     | 17.48                      |                     |             |  |  |                     |             |  |  |
| 20                            | SSBQAM     | 50      | 24        | 17.38                     | 17.52                     | 17.45                      |                     |             |  |  |                     |             |  |  |
| 20                            | SSBQAM     | 50      | 50        | 17.48                     | 17.63                     | 17.58                      |                     |             |  |  |                     |             |  |  |
| 20                            | SSBQAM     | 100     | 0         | 17.69                     | 17.76                     | 17.63                      |                     |             |  |  |                     |             |  |  |
| Channel                       |            |         |           |                           |                           |                            |                     |             |  |  |                     |             |  |  |
| Frequency (MHz)               |            |         |           | 1717.5                    | 1732.5                    | 1747.5                     |                     |             |  |  |                     |             |  |  |
| 15                            | QPSK       | 1       | 0         | 20.54                     | 20.52                     | 20.58                      | 22.1                | 0           |  |  |                     |             |  |  |
| 15                            | QPSK       | 37      | 0         | 20.42                     | 20.44                     | 20.39                      |                     |             |  |  |                     |             |  |  |
| 15                            | QPSK       | 1       | 74        | 20.43                     | 20.41                     | 20.37                      |                     |             |  |  |                     |             |  |  |
| 15                            | QPSK       | 36      | 0         | 20.51                     | 20.47                     | 20.36                      |                     |             |  |  |                     |             |  |  |
| 15                            | QPSK       | 36      | 20        | 20.25                     | 20.37                     | 20.33                      |                     |             |  |  |                     |             |  |  |
| 15                            | QPSK       | 36      | 36        | 20.29                     | 20.28                     | 20.21                      | 22.1                | 0           |  |  |                     |             |  |  |
| 15                            | QPSK       | 75      | 0         | 20.32                     | 20.27                     | 20.23                      |                     |             |  |  |                     |             |  |  |
| 15                            | HQAM       | 1       | 49        | 20.49                     | 20.51                     | 20.48                      |                     |             |  |  |                     |             |  |  |
| 15                            | HQAM       | 1       | 37        | 20.37                     | 20.38                     | 20.28                      |                     |             |  |  |                     |             |  |  |
| 15                            | HQAM       | 1       | 36        | 20.33                     | 20.39                     | 20.28                      |                     |             |  |  |                     |             |  |  |
| 15                            | HQAM       | 36      | 0         | 20.20                     | 20.39                     | 20.21                      | 22                  | 0.1         |  |  |                     |             |  |  |
| 15                            | HQAM       | 36      | 20        | 20.26                     | 20.19                     | 20.20                      |                     |             |  |  |                     |             |  |  |
| 15                            | HQAM       | 36      | 37        | 20.19                     | 20.35                     | 20.25                      |                     |             |  |  |                     |             |  |  |
| 15                            | HQAM       | 75      | 0         | 20.07                     | 20.24                     | 20.04                      |                     |             |  |  |                     |             |  |  |
| 15                            | HQAM       | 1       | 0         | 20.48                     | 20.41                     | 20.44                      |                     |             |  |  |                     |             |  |  |
| 15                            | HQAM       | 1       | 37        | 20.38                     | 20.32                     | 20.24                      | 22                  | 0.1         |  |  |                     |             |  |  |
| 15                            | HQAM       | 36      | 0         | 19.81                     | 19.97                     | 19.81                      |                     |             |  |  |                     |             |  |  |
| 15                            | HQAM       | 36      | 20        | 19.85                     | 19.89                     | 19.80                      |                     |             |  |  |                     |             |  |  |
| 15                            | HQAM       | 36      | 36        | 19.80                     | 19.94                     | 19.85                      |                     |             |  |  |                     |             |  |  |
| 15                            | HQAM       | 75      | 0         | 20.07                     | 20.24                     | 20.09                      |                     |             |  |  |                     |             |  |  |
| 15                            | HQAM       | 1       | 0         | 17.56                     | 17.68                     | 17.58                      | 19                  | 3.1         |  |  |                     |             |  |  |
| 15                            | SSBQAM     | 1       | 37        | 17.58                     | 17.67                     | 17.51                      |                     |             |  |  |                     |             |  |  |
| 15                            | SSBQAM     | 1       | 74        | 17.38                     | 17.47                     | 17.30                      |                     |             |  |  |                     |             |  |  |
| 15                            | SSBQAM     | 36      | 0         | 17.44                     | 17.45                     | 17.43                      |                     |             |  |  |                     |             |  |  |
| 15                            | SSBQAM     | 36      | 20        | 17.26                     | 17.43                     | 17.33                      |                     |             |  |  |                     |             |  |  |
| 15                            | SSBQAM     | 36      | 37        | 17.49                     | 17.53                     | 17.45                      | 19                  | 3.1         |  |  |                     |             |  |  |
| 15                            | SSBQAM     | 75      | 0         | 17.15                     | 17.42                     | 17.45                      |                     |             |  |  |                     |             |  |  |
| 15                            | SSBQAM     | 25      | 0         | 17.58                     | 17.62                     | 17.49                      |                     |             |  |  |                     |             |  |  |
| Channel                       |            |         |           |                           |                           |                            |                     |             |  |  |                     |             |  |  |
| Frequency (MHz)               |            |         |           | 1697.5                    | 1697.5                    | 1697.5                     |                     |             |  |  | Time-up<br>Int. (s) | MPE<br>(dB) |  |  |
| 10                            | QPSK       | 1       | 0         | 20.68                     | 20.51                     | 20.67                      | 22.1                | 0           |  |  |                     |             |  |  |
| 10                            | QPSK       | 1       | 25        | 20.44                     | 20.48                     | 20.49                      |                     |             |  |  |                     |             |  |  |
| 10                            | QPSK       | 1       | 49        | 20.50                     | 20.43                     | 20.44                      |                     |             |  |  |                     |             |  |  |
| 10                            | QPSK       | 25      | 0         | 20.48                     | 20.44                     | 20.47                      |                     |             |  |  |                     |             |  |  |
| 10                            | QPSK       | 25      | 12        | 20.25                     | 20.39                     | 20.22                      |                     |             |  |  |                     |             |  |  |
| 10                            | QPSK       | 25      | 25        | 20.29                     | 20.35                     | 20.28                      | 22.1                | 0           |  |  |                     |             |  |  |
| 10                            | QPSK       | 50      | 0         | 20.39                     | 20.39                     | 20.39                      |                     |             |  |  |                     |             |  |  |
| 10                            | HQAM       | 1       | 0         | 20.39                     | 20.50                     | 20.48                      |                     |             |  |  |                     |             |  |  |
| 10                            | HQAM       | 1       | 25        | 20.38                     | 20.34                     | 20.28                      |                     |             |  |  |                     |             |  |  |
| 10                            | HQAM       | 25      | 0         | 20.34                     | 20.41                     | 20.27                      |                     |             |  |  |                     |             |  |  |
| 10                            | HQAM       | 25      | 12        | 20.18                     | 20.31                     | 20.22                      | 22                  | 0.1         |  |  |                     |             |  |  |
| 10                            | HQAM       | 25      | 25        | 20.27                     | 20.32                     | 20.25                      |                     |             |  |  |                     |             |  |  |
| 10                            | HQAM       | 50      | 0         | 20.13                     | 20.12                     | 20.11                      |                     |             |  |  |                     |             |  |  |
| 10                            | HQAM       | 1       | 0         | 20.50                     | 20.47                     | 20.43                      |                     |             |  |  |                     |             |  |  |
| 10                            | HQAM       | 1       | 25        | 20.32                     | 20.42                     | 20.35                      |                     |             |  |  |                     |             |  |  |
| 10                            | HQAM       | 1       | 49        | 20.40                     | 20.44                     | 20.32                      | 22                  | 0.1         |  |  |                     |             |  |  |
| 10                            | HQAM       | 25      | 0         | 19.89                     | 19.97                     | 19.80                      |                     |             |  |  |                     |             |  |  |
| 10                            | HQAM       | 25      | 12        | 19.88                     | 19.97                     | 19.82                      |                     |             |  |  |                     |             |  |  |
| 10                            | HQAM       | 25      | 25        | 19.81                     | 19.88                     | 19.79                      |                     |             |  |  |                     |             |  |  |
| 10                            | HQAM       | 50      | 0         | 20.11                     | 20.22                     | 20.08                      |                     |             |  |  |                     |             |  |  |
| 10                            | SSBQAM     | 1       | 25        | 17.65                     | 17.77                     | 17.63                      | 19                  | 3.1         |  |  |                     |             |  |  |
| 10                            | SSBQAM     | 1       | 25        | 17.65                     | 17.73                     | 17.58                      |                     |             |  |  |                     |             |  |  |
| 10                            | SSBQAM     | 1       | 49        | 17.42                     | 17.49                     | 17.33                      |                     |             |  |  |                     |             |  |  |
| 10                            | SSBQAM     | 25      | 0         | 17.52                     | 17.51                     | 17.43                      |                     |             |  |  |                     |             |  |  |
| 10                            | SSBQAM     | 25      | 12        | 17.29                     | 17.42                     | 17.35                      |                     |             |  |  |                     |             |  |  |
| 10                            | SSBQAM     | 25      | 25        | 17.35                     | 17.49                     | 17.47                      | 19                  | 3.1         |  |  |                     |             |  |  |
| 10                            | SSBQAM     | 50      | 0         | 17.58                     | 17.62                     | 17.49                      |                     |             |  |  |                     |             |  |  |
| 10                            | SSBQAM     | 50      | 25        | 17.40                     | 17.54                     | 17.46                      |                     |             |  |  |                     |             |  |  |
| Channel                       |            |         |           |                           |                           |                            |                     |             |  |  |                     |             |  |  |
| Frequency (MHz)               |            |         |           | 1697.5                    | 1732.5                    | 1733.5                     |                     |             |  |  | Time-up<br>Int. (s) | MPE<br>(dB) |  |  |
| 3                             | QPSK       | 1       | 0         | 20.48                     | 20.54                     | 20.50                      | 22.1                | 0           |  |  |                     |             |  |  |
| 3                             | QPSK       | 1       | 12        | 20.43                     | 20.47                     | 20.45                      |                     |             |  |  |                     |             |  |  |
| 3                             | QPSK       | 1       | 24        | 20.51                     | 20.48                     | 20.34                      |                     |             |  |  |                     |             |  |  |
| 3                             | QPSK       | 12      | 0         | 20.47                     | 20.47                     | 20.35                      |                     |             |  |  |                     |             |  |  |
| 3                             | QPSK       | 12      | 7         | 20.22                     | 20.35                     | 20.26                      |                     |             |  |  |                     |             |  |  |
| 3                             | QPSK       | 12      | 13        | 20.27                     | 20.38                     | 20.33                      | 22.1                | 0           |  |  |                     |             |  |  |
| 3                             | QPSK       | 25      | 0         | 20.38                     | 20.39                     | 20.33                      |                     |             |  |  |                     |             |  |  |
| 3                             | HQAM       | 1       | 0         | 20.40                     | 20.41                     | 20.44                      |                     |             |  |  |                     |             |  |  |
| 3                             | HQAM       | 1       | 12        | 20.39                     | 20.44                     | 20.33                      |                     |             |  |  |                     |             |  |  |
| 3                             | HQAM       | 1       | 24        | 20.43                     | 20.33                     | 20.35                      |                     |             |  |  |                     |             |  |  |
| 3                             | HQAM       | 12      | 0         | 20.31                     | 20.39                     | 20.29                      | 22                  | 0.1         |  |  |                     |             |  |  |
| 3                             | HQAM       | 12      | 7         | 20.16                     | 20.33                     | 20.22                      |                     |             |  |  |                     |             |  |  |
| 3                             | HQAM       | 12      | 13        | 20.22                     | 20.18                     | 20.25                      |                     |             |  |  |                     |             |  |  |
| 3                             | HQAM       | 25      | 0         | 20.10                     | 20.11                     | 20.03                      |                     |             |  |  |                     |             |  |  |
| 3                             | HQAM       | 1       | 0         | 20.49                     | 20.49                     | 20.43                      |                     |             |  |  |                     |             |  |  |
| 3                             | HQAM       | 1       | 12        | 20.34                     | 20.44                     | 20.37                      | 22                  | 0.1         |  |  |                     |             |  |  |
| 3                             | HQAM       | 1       | 24        | 20.42                     | 20.35                     | 20.28                      |                     |             |  |  |                     |             |  |  |
| 3                             | HQAM       | 12      | 0         | 19.82                     | 19.92                     | 19.87                      |                     |             |  |  |                     |             |  |  |
| 3                             | HQAM       | 12      | 7         | 19.83                     | 19.95                     | 19.85                      |                     |             |  |  |                     |             |  |  |
| 3                             | HQAM       | 12      | 13        | 19.77                     | 19.89                     | 19.78                      |                     |             |  |  |                     |             |  |  |
| 3                             | HQAM       | 25      | 0         | 20.12                     | 20.21                     | 20.13                      | 21                  | 1.1         |  |  |                     |             |  |  |
| 3                             | SSBQAM     | 1       | 0         | 17.63                     | 17.68                     | 17.63                      |                     |             |  |  |                     |             |  |  |
| 3                             | SSBQAM     | 1       | 12        | 17.62                     | 17.68                     | 17.58                      |                     |             |  |  |                     |             |  |  |
| 3                             | SSBQAM     | 1       | 24        | 17.40                     | 17.44                     | 17.36                      |                     |             |  |  |                     |             |  |  |
| 3                             | SSBQAM     | 12      | 0         | 17.48                     | 17.52                     | 17.48                      |                     |             |  |  |                     |             |  |  |
| 3                             | SSBQAM     | 12      | 7         | 17.30                     | 17.42                     | 17.31                      | 19                  | 3.1         |  |  |                     |             |  |  |
| 3                             | SSBQAM     | 12      | 13        | 17.40                     | 17.54                     | 17.46                      |                     |             |  |  |                     |             |  |  |
| 3                             | SSBQAM     | 25      | 0         | 17.55                     | 17.44                     | 17.48                      |                     |             |  |  |                     |             |  |  |
| Channel                       |            |         |           |                           |                           |                            |                     |             |  |  |                     |             |  |  |
| Frequency (MHz)               |            |         |           | 1717.5                    | 1732.5                    | 1733.5                     |                     |             |  |  | Time-up<br>Int. (s) | MPE<br>(dB) |  |  |
| 1.4                           | QPSK       | 1       | 0         | 20.48                     | 20.54                     | 20.50                      | 22.1                | 0           |  |  |                     |             |  |  |
| 1.4                           | QPSK       | 1       | 8         | 20.45                     | 20.41                     | 20.47                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | QPSK       | 1       | 16        | 20.51                     | 20.48                     | 20.34                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | QPSK       | 8       | 0         | 20.23                     | 20.37                     | 20.27                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | QPSK       | 8       | 8         | 20.27                     | 20.40                     | 20.28                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | QPSK       | 16      | 0         | 20.38                     | 20.39                     | 20.33                      | 22.1                | 0           |  |  |                     |             |  |  |
| 1.4                           | QPSK       | 16      | 0         | 20.29                     | 20.27                     | 20.27                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 1       | 0         | 20.40                     | 20.49                     | 20.38                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 1       | 8         | 20.35                     | 20.48                     | 20.22                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 8       | 0         | 20.25                     | 20.38                     | 20.26                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 8       | 7         | 20.29                     | 20.19                     | 20.23                      | 22.1                | 0           |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 8       | 16        | 20.16                     | 20.33                     | 20.22                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 16      | 0         | 20.45                     | 20.41                     | 20.43                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 1       | 8         | 20.32                     | 20.39                     | 20.28                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 8       | 8         | 19.89                     | 19.93                     | 19.82                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 8       | 0         | 19.87                     | 19.92                     | 19.85                      | 21                  | 1.1         |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 16      | 0         | 19.81                     | 19.91                     | 19.81                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 16      | 8         | 19.89                     | 19.93                     | 19.82                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | SSBQAM     | 1       | 0         | 17.68                     | 17.73                     | 17.68                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | SSBQAM     | 1       | 8         | 17.67                     | 17.73                     | 17.66                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | SSBQAM     | 1       | 16        | 17.43                     | 17.46                     | 17.38                      | 19                  | 3.1         |  |  |                     |             |  |  |
| 1.4                           | SSBQAM     | 8       | 0         | 17.48                     | 17.51                     | 17.48                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | SSBQAM     | 8       | 8         | 17.28                     | 17.43                     | 17.32                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | SSBQAM     | 8       | 16        | 17.33                     | 17.57                     | 17.48                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | SSBQAM     | 15      | 0         | 17.57                     | 17.46                     | 17.51                      |                     |             |  |  |                     |             |  |  |
| Channel                       |            |         |           |                           |                           |                            |                     |             |  |  |                     |             |  |  |
| Frequency (MHz)               |            |         |           | 1710.7                    | 1730.7                    | 1734.3                     | Time-up<br>Int. (s) | MPE<br>(dB) |  |  |                     |             |  |  |
| 1.4                           | QPSK       | 1       | 0         | 20.48                     | 20.56                     | 20.41                      | 22.1                | 0           |  |  |                     |             |  |  |
| 1.4                           | QPSK       | 1       | 8         | 20.45                     | 20.35                     | 20.32                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | QPSK       | 1       | 16        | 20.46                     | 20.37                     | 20.33                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | QPSK       | 8       | 0         | 20.37                     | 20.40                     | 20.28                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | QPSK       | 8       | 8         | 20.25                     | 20.35                     | 20.23                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | QPSK       | 16      | 0         | 20.21                     | 20.25                     | 20.15                      | 22.1                | 0           |  |  |                     |             |  |  |
| 1.4                           | QPSK       | 8       | 0         | 20.23                     | 20.17                     | 20.15                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 1       | 0         | 20.30                     | 20.30                     | 20.23                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 1       | 8         | 20.26                     | 20.30                     | 20.27                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 1       | 16        | 20.19                     | 20.30                     | 20.13                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 8       | 0         | 20.18                     | 20.18                     | 20.10                      | 22                  | 0.1         |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 8       | 8         | 20.07                     | 20.14                     | 20.10                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 16      | 0         | 20.38                     | 20.36                     | 20.25                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 1       | 0         | 20.24                     | 20.22                     | 20.24                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 1       | 8         | 20.38                     | 20.31                     | 20.31                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 8       | 0         | 20.24                     | 20.24                     | 20.24                      | 22                  | 0.1         |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 8       | 8         | 20.32                     | 20.31                     | 20.31                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | HQAM       | 8       | 16        | 19.28                     | 19.40                     | 19.09                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | SSBQAM     | 1       | 0         | 17.17                     | 17.21                     | 17.17                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | SSBQAM     | 1       | 8         | 17.08                     | 17.17                     | 17.08                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | SSBQAM     | 1       | 16        | 17.29                     | 17.29                     | 17.17                      | 19                  | 3.1         |  |  |                     |             |  |  |
| 1.4                           | SSBQAM     | 8       | 0         | 17.06                     | 17.01                     | 17.06                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | SSBQAM     | 8       | 8         | 17.06                     | 17.06                     | 17.00                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | SSBQAM     | 8       | 16        | 17.13                     | 17.34                     | 17.00                      |                     |             |  |  |                     |             |  |  |
| 1.4                           | SSBQAM     | 15      | 0         | 17.13                     | 17.34                     | 17.00                      |                     |             |  |  |                     |             |  |  |

| Band 38 Ant1 DSI3 Simultaneous |            |         |           |                       |                          |                        |                     |          |  |
|--------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                       | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                        |            |         |           | 37850                 | 38000                    | 38150                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20                             | QPSK       | 1       | 0         | 15.43                 | 15.61                    | 15.28                  | 16.9                | 0        |  |
| 20                             | QPSK       | 1       | 49        | 15.27                 | 15.43                    | 15.14                  |                     |          |  |
| 20                             | QPSK       | 1       | 99        | 15.19                 | 15.28                    | 15.28                  |                     |          |  |
| 20                             | QPSK       | 50      | 0         | 15.28                 | 15.46                    | 15.17                  | 16.9                | 0        |  |
| 20                             | QPSK       | 50      | 24        | 15.21                 | 15.36                    | 15.13                  |                     |          |  |
| 20                             | QPSK       | 50      | 50        | 15.12                 | 15.09                    | 15.24                  |                     |          |  |
| 20                             | QPSK       | 100     | 0         | 15.22                 | 15.53                    | 15.11                  | 16.9                | 0        |  |
| 20                             | 16QAM      | 1       | 0         | 15.25                 | 15.28                    | 15.17                  |                     |          |  |
| 20                             | 16QAM      | 1       | 49        | 15.17                 | 15.23                    | 15.22                  |                     |          |  |
| 20                             | 16QAM      | 1       | 99        | 15.32                 | 15.51                    | 15.20                  | 16.9                | 0        |  |
| 20                             | 16QAM      | 50      | 0         | 15.16                 | 15.41                    | 15.12                  |                     |          |  |
| 20                             | 16QAM      | 50      | 24        | 15.11                 | 15.24                    | 15.24                  |                     |          |  |
| 20                             | 16QAM      | 50      | 50        | 15.26                 | 15.49                    | 15.14                  | 16.9                | 0        |  |
| 20                             | 16QAM      | 100     | 0         | 15.09                 | 15.27                    | 15.11                  |                     |          |  |
| 20                             | 64QAM      | 1       | 0         | 15.18                 | 15.11                    | 15.30                  |                     |          |  |
| 20                             | 64QAM      | 1       | 49        | 15.29                 | 15.45                    | 15.27                  | 16.9                | 0        |  |
| 20                             | 64QAM      | 1       | 99        | 15.20                 | 15.40                    | 15.14                  |                     |          |  |
| 20                             | 64QAM      | 50      | 0         | 15.10                 | 15.13                    | 15.22                  |                     |          |  |
| 20                             | 64QAM      | 50      | 24        | 15.23                 | 15.17                    | 15.21                  | 16.9                | 0        |  |
| 20                             | 64QAM      | 50      | 50        | 15.24                 | 15.24                    | 15.17                  |                     |          |  |
| 20                             | 64QAM      | 100     | 0         | 15.23                 | 15.23                    | 15.42                  |                     |          |  |
| 20                             | 256QAM     | 1       | 0         | 15.18                 | 15.42                    | 15.25                  | 16.9                | 0        |  |
| 20                             | 256QAM     | 1       | 49        | 15.19                 | 15.41                    | 15.17                  |                     |          |  |
| 20                             | 256QAM     | 1       | 99        | 15.10                 | 15.12                    | 15.20                  |                     |          |  |
| 20                             | 256QAM     | 50      | 0         | 15.12                 | 15.27                    | 15.14                  | 16.9                | 0        |  |
| 20                             | 256QAM     | 50      | 24        | 15.01                 | 15.07                    | 15.25                  |                     |          |  |
| 20                             | 256QAM     | 50      | 50        | 15.04                 | 15.17                    | 15.14                  |                     |          |  |
| 20                             | 256QAM     | 100     | 0         | 15.09                 | 15.10                    | 15.34                  | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                        |            |         |           | 37825                 | 38000                    | 38175                  |                     |          |  |
| Frequency (MHz)                |            |         |           | 2577.5                | 2595                     | 2612.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15                             | QPSK       | 1       | 0         | 15.39                 | 15.56                    | 15.11                  |                     |          |  |
| 15                             | QPSK       | 1       | 37        | 15.15                 | 15.30                    | 15.18                  | 16.9                | 0        |  |
| 15                             | QPSK       | 1       | 74        | 15.20                 | 15.24                    | 15.19                  |                     |          |  |
| 15                             | QPSK       | 36      | 0         | 15.07                 | 15.42                    | 15.02                  |                     |          |  |
| 15                             | QPSK       | 36      | 20        | 15.16                 | 15.26                    | 15.07                  | 16.9                | 0        |  |
| 15                             | QPSK       | 36      | 39        | 15.15                 | 15.01                    | 15.24                  |                     |          |  |
| 15                             | QPSK       | 75      | 0         | 15.16                 | 15.47                    | 15.01                  |                     |          |  |
| 15                             | 16QAM      | 1       | 0         | 15.24                 | 15.30                    | 15.07                  | 16.9                | 0        |  |
| 15                             | 16QAM      | 1       | 37        | 15.13                 | 15.01                    | 15.14                  |                     |          |  |
| 15                             | 16QAM      | 1       | 74        | 15.22                 | 15.49                    | 15.15                  |                     |          |  |
| 15                             | 16QAM      | 36      | 0         | 15.10                 | 15.31                    | 15.14                  | 16.9                | 0        |  |
| 15                             | 16QAM      | 36      | 20        | 15.05                 | 15.08                    | 15.07                  |                     |          |  |
| 15                             | 16QAM      | 36      | 39        | 15.25                 | 15.45                    | 15.10                  |                     |          |  |
| 15                             | 16QAM      | 75      | 0         | 15.14                 | 15.17                    | 15.12                  | 16.9                | 0        |  |
| 15                             | 64QAM      | 1       | 0         | 15.05                 | 15.07                    | 15.13                  |                     |          |  |
| 15                             | 64QAM      | 1       | 37        | 15.21                 | 15.47                    | 15.14                  |                     |          |  |
| 15                             | 64QAM      | 1       | 74        | 15.11                 | 15.31                    | 15.12                  | 16.9                | 0        |  |
| 15                             | 64QAM      | 36      | 0         | 15.14                 | 15.14                    | 15.08                  |                     |          |  |
| 15                             | 64QAM      | 36      | 20        | 15.16                 | 15.04                    | 15.18                  |                     |          |  |
| 15                             | 64QAM      | 36      | 39        | 15.17                 | 15.17                    | 15.15                  | 16.9                | 0        |  |
| 15                             | 64QAM      | 75      | 0         | 15.16                 | 15.24                    | 15.33                  |                     |          |  |
| 15                             | 256QAM     | 1       | 0         | 15.12                 | 15.29                    | 15.16                  |                     |          |  |
| 15                             | 256QAM     | 1       | 37        | 15.12                 | 15.25                    | 15.13                  | 16.9                | 0        |  |
| 15                             | 256QAM     | 1       | 74        | 15.05                 | 15.06                    | 15.12                  |                     |          |  |
| 15                             | 256QAM     | 36      | 0         | 15.12                 | 15.25                    | 15.00                  |                     |          |  |
| 15                             | 256QAM     | 36      | 20        | 15.14                 | 15.07                    | 15.16                  | 16.9                | 0        |  |
| 15                             | 256QAM     | 36      | 39        | 15.17                 | 15.09                    | 15.00                  |                     |          |  |
| 15                             | 256QAM     | 75      | 0         | 15.16                 | 15.04                    | 15.28                  |                     |          |  |
| Channel                        |            |         |           | 37800                 | 38000                    | 38200                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 2575                  | 2595                     | 2615                   |                     |          |  |
| 10                             | QPSK       | 1       | 0         | 15.33                 | 15.46                    | 15.17                  | 16.9                | 0        |  |
| 10                             | QPSK       | 1       | 25        | 15.19                 | 15.30                    | 15.11                  |                     |          |  |
| 10                             | QPSK       | 1       | 49        | 15.16                 | 15.29                    | 15.23                  |                     |          |  |
| 10                             | QPSK       | 25      | 0         | 15.17                 | 15.37                    | 15.12                  | 16.9                | 0        |  |
| 10                             | QPSK       | 25      | 12        | 15.18                 | 15.23                    | 15.05                  |                     |          |  |
| 10                             | QPSK       | 25      | 25        | 15.07                 | 15.02                    | 15.22                  |                     |          |  |
| 10                             | QPSK       | 50      | 0         | 15.26                 | 15.40                    | 15.04                  | 16.9                | 0        |  |
| 10                             | 16QAM      | 1       | 0         | 15.18                 | 15.22                    | 15.13                  |                     |          |  |
| 10                             | 16QAM      | 1       | 25        | 15.08                 | 15.03                    | 15.21                  |                     |          |  |
| 10                             | 16QAM      | 1       | 49        | 15.23                 | 15.49                    | 15.07                  | 16.9                | 0        |  |
| 10                             | 16QAM      | 25      | 0         | 15.16                 | 15.38                    | 15.15                  |                     |          |  |
| 10                             | 16QAM      | 25      | 12        | 15.10                 | 15.12                    | 15.10                  |                     |          |  |
| 10                             | 16QAM      | 25      | 25        | 15.22                 | 15.49                    | 15.11                  | 16.9                | 0        |  |
| 10                             | 16QAM      | 50      | 0         | 15.02                 | 15.21                    | 15.07                  |                     |          |  |
| 10                             | 64QAM      | 1       | 0         | 15.07                 | 15.11                    | 15.15                  |                     |          |  |
| 10                             | 64QAM      | 1       | 25        | 15.26                 | 15.44                    | 15.15                  | 16.9                | 0        |  |
| 10                             | 64QAM      | 1       | 49        | 15.18                 | 15.32                    | 15.14                  |                     |          |  |
| 10                             | 64QAM      | 25      | 0         | 15.49                 | 15.08                    | 15.08                  |                     |          |  |
| 10                             | 64QAM      | 25      | 12        | 15.23                 | 15.03                    | 15.13                  | 16.9                | 0        |  |
| 10                             | 64QAM      | 25      | 25        | 15.19                 | 15.15                    | 15.18                  |                     |          |  |
| 10                             | 64QAM      | 50      | 0         | 15.25                 | 15.24                    | 15.34                  |                     |          |  |
| 10                             | 256QAM     | 1       | 0         | 15.13                 | 15.36                    | 15.09                  | 16.9                | 0        |  |
| 10                             | 256QAM     | 1       | 25        | 15.12                 | 15.29                    | 15.14                  |                     |          |  |
| 10                             | 256QAM     | 1       | 49        | 15.09                 | 15.13                    | 15.15                  |                     |          |  |
| 10                             | 256QAM     | 25      | 0         | 15.17                 | 15.20                    | 15.05                  | 16.9                | 0        |  |
| 10                             | 256QAM     | 25      | 12        | 15.01                 | 15.13                    | 15.16                  |                     |          |  |
| 10                             | 256QAM     | 25      | 25        | 15.49                 | 15.02                    | 15.08                  |                     |          |  |
| 10                             | 256QAM     | 50      | 0         | 15.49                 | 15.12                    | 15.23                  | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                        |            |         |           | 37775                 | 38000                    | 38225                  |                     |          |  |
| Frequency (MHz)                |            |         |           | 2572.5                | 2595                     | 2617.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| 5                              | QPSK       | 1       | 0         | 15.36                 | 15.49                    | 15.09                  |                     |          |  |
| 5                              | QPSK       | 1       | 12        | 15.14                 | 15.37                    | 15.06                  | 16.9                | 0        |  |
| 5                              | QPSK       | 1       | 24        | 15.12                 | 15.21                    | 15.24                  |                     |          |  |
| 5                              | QPSK       | 12      | 0         | 15.11                 | 15.37                    | 15.03                  |                     |          |  |
| 5                              | QPSK       | 12      | 7         | 15.14                 | 15.29                    | 15.07                  | 16.9                | 0        |  |
| 5                              | QPSK       | 12      | 13        | 15.08                 | 15.04                    | 15.17                  |                     |          |  |
| 5                              | QPSK       | 25      | 0         | 15.18                 | 15.39                    | 15.03                  |                     |          |  |
| 5                              | 16QAM      | 1       | 0         | 15.18                 | 15.19                    | 15.14                  | 16.9                | 0        |  |
| 5                              | 16QAM      | 1       | 12        | 15.16                 | 15.11                    | 15.14                  |                     |          |  |
| 5                              | 16QAM      | 1       | 24        | 15.29                 | 15.51                    | 15.15                  |                     |          |  |
| 5                              | 16QAM      | 12      | 0         | 15.11                 | 15.30                    | 15.01                  | 16.9                | 0        |  |
| 5                              | 16QAM      | 12      | 7         | 15.10                 | 15.16                    | 15.11                  |                     |          |  |
| 5                              | 16QAM      | 12      | 13        | 15.18                 | 15.43                    | 15.06                  |                     |          |  |
| 5                              | 16QAM      | 25      | 0         | 15.01                 | 15.11                    | 15.04                  | 16.9                | 0        |  |
| 5                              | 64QAM      | 1       | 0         | 15.08                 | 15.13                    | 15.13                  |                     |          |  |
| 5                              | 64QAM      | 1       | 12        | 15.24                 | 15.40                    | 15.06                  |                     |          |  |
| 5                              | 64QAM      | 1       | 24        | 15.12                 | 15.35                    | 15.07                  | 16.9                | 0        |  |
| 5                              | 64QAM      | 12      | 0         | 15.03                 | 15.09                    | 15.03                  |                     |          |  |
| 5                              | 64QAM      | 12      | 7         | 15.20                 | 15.09                    | 15.24                  |                     |          |  |
| 5                              | 64QAM      | 12      | 13        | 15.18                 | 15.24                    | 15.15                  | 16.9                | 0        |  |
| 5                              | 64QAM      | 25      | 0         | 15.18                 | 15.16                    | 15.36                  |                     |          |  |
| 5                              | 256QAM     | 1       | 0         | 15.13                 | 15.33                    | 15.10                  |                     |          |  |
| 5                              | 256QAM     | 1       | 12        | 15.07                 | 15.28                    | 15.06                  | 16.9                | 0        |  |
| 5                              | 256QAM     | 1       | 24        | 15.08                 | 15.10                    | 15.15                  |                     |          |  |
| 5                              | 256QAM     | 12      | 0         | 15.13                 | 15.24                    | 15.08                  |                     |          |  |
| 5                              | 256QAM     | 12      | 7         | 15.03                 | 15.15                    | 15.11                  | 16.9                | 0        |  |
| 5                              | 256QAM     | 12      | 13        | 15.00                 | 15.03                    | 15.03                  |                     |          |  |
| 5                              | 256QAM     | 25      | 0         | 15.02                 | 15.03                    | 15.22                  |                     |          |  |

| Band 41 Ant1 DSI3 Simultaneous |            |         |           |                       |                              |                          |                               |                        |                     |          |
|--------------------------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| 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. |                     |          |
| Channel                        |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  | Tune-up limit (dBm) |          |
| Frequency (MHz)                |            |         |           | 2596                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20                             | QPSK       | 1       | 0         | 15.42                 | 15.46                        | 15.64                    | 15.34                         | 15.29                  | 16.9                | 0        |
| 20                             | QPSK       | 1       | 49        | 15.18                 | 15.36                        | 15.51                    | 15.27                         | 15.30                  |                     |          |
| 20                             | QPSK       | 1       | 99        | 15.24                 | 15.30                        | 15.36                    | 15.38                         | 15.39                  |                     |          |
| 20                             | QPSK       | 50      | 0         | 15.29                 | 15.34                        | 15.58                    | 15.25                         | 15.17                  |                     |          |
| 20                             | QPSK       | 50      | 24        | 15.13                 | 15.31                        | 15.39                    | 15.19                         | 15.20                  | 16.9                | 0        |
| 20                             | QPSK       | 50      | 50        | 15.11                 | 15.26                        | 15.21                    | 15.30                         | 15.25                  |                     |          |
| 20                             | QPSK       | 100     | 0         | 15.30                 | 15.33                        | 15.55                    | 15.19                         | 15.14                  |                     |          |
| 20                             | 16QAM      | 1       | 0         | 15.22                 | 15.29                        | 15.41                    | 15.21                         | 15.18                  |                     |          |
| 20                             | 16QAM      | 1       | 49        | 15.23                 | 15.22                        | 15.27                    | 15.32                         | 15.34                  | 16.9                | 0        |
| 20                             | 16QAM      | 1       | 99        | 15.23                 | 15.37                        | 15.59                    | 15.23                         | 15.25                  |                     |          |
| 20                             | 16QAM      | 50      | 0         | 15.22                 | 15.28                        | 15.44                    | 15.15                         | 15.10                  |                     |          |
| 20                             | 16QAM      | 50      | 24        | 15.17                 | 15.21                        | 15.27                    | 15.31                         | 15.35                  |                     |          |
| 20                             | 16QAM      | 50      | 50        | 15.34                 | 15.37                        | 15.59                    | 15.24                         | 15.18                  | 16.9                | 0        |
| 20                             | 16QAM      | 100     | 0         | 15.07                 | 15.20                        | 15.37                    | 15.18                         | 15.23                  |                     |          |
| 20                             | 64QAM      | 1       | 0         | 15.18                 | 15.22                        | 15.21                    | 15.33                         | 15.24                  |                     |          |
| 20                             | 64QAM      | 1       | 49        | 15.27                 | 15.36                        | 15.54                    | 15.29                         | 15.19                  |                     |          |
| 20                             | 64QAM      | 1       | 99        | 15.09                 | 15.31                        | 15.46                    | 15.22                         | 15.23                  | 16.9                | 0        |
| 20                             | 64QAM      | 50      | 0         | 15.13                 | 15.16                        | 15.24                    | 15.24                         | 15.30                  |                     |          |
| 20                             | 64QAM      | 50      | 24        | 15.22                 | 15.31                        | 15.26                    | 15.34                         | 15.50                  |                     |          |
| 20                             | 64QAM      | 50      | 50        | 15.29                 | 15.32                        | 15.34                    | 15.29                         | 15.40                  |                     |          |
| 20                             | 64QAM      | 100     | 0         | 15.46                 | 15.37                        | 15.33                    | 15.46                         | 15.31                  |                     |          |
| 20                             | 256QAM     | 1       | 0         | 15.27                 | 15.32                        | 15.50                    | 15.30                         | 15.20                  |                     |          |
| 20                             | 256QAM     | 1       | 49        | 15.28                 | 15.25                        | 15.44                    | 15.22                         | 15.19                  |                     |          |
| 20                             | 256QAM     | 1       | 99        | 15.22                 | 15.16                        | 15.24                    | 15.28                         | 15.27                  |                     |          |
| 20                             | 256QAM     | 50      | 0         | 15.24                 | 15.26                        | 15.37                    | 15.22                         | 15.43                  |                     |          |
| 20                             | 256QAM     | 50      | 24        | 15.11                 | 15.08                        | 15.20                    | 15.28                         | 15.43                  |                     |          |
| 20                             | 256QAM     | 50      | 50        | 15.11                 | 15.14                        | 15.29                    | 15.17                         | 15.27                  |                     |          |
| 20                             | 256QAM     | 100     | 0         | 15.26                 | 15.17                        | 15.20                    | 15.37                         | 15.28                  |                     |          |
| Channel                        |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 2603.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |          |
| 15                             | QPSK       | 1       | 0         | 15.39                 | 15.36                        | 15.60                    | 15.31                         | 15.15                  | 16.90               | 0        |
| 15                             | QPSK       | 1       | 37        | 15.10                 | 15.28                        | 15.48                    | 15.15                         | 15.21                  |                     |          |
| 15                             | QPSK       | 1       | 74        | 15.13                 | 15.21                        | 15.31                    | 15.28                         | 15.30                  |                     |          |
| 15                             | QPSK       | 36      | 0         | 15.23                 | 15.25                        | 15.46                    | 15.22                         | 15.06                  |                     |          |
| 15                             | QPSK       | 36      | 20        | 15.03                 | 15.20                        | 15.37                    | 15.15                         | 15.14                  | 16.9                | 0        |
| 15                             | QPSK       | 36      | 39        | 15.04                 | 15.17                        | 15.12                    | 15.16                         | 15.11                  |                     |          |
| 15                             | QPSK       | 75      | 0         | 15.21                 | 15.25                        | 15.53                    | 15.11                         | 15.07                  |                     |          |
| 15                             | 16QAM      | 1       | 0         | 15.11                 | 15.18                        | 15.29                    | 15.07                         | 15.12                  |                     |          |
| 15                             | 16QAM      | 1       | 37        | 15.16                 | 15.20                        | 15.19                    | 15.27                         | 15.29                  | 16.9                | 0        |
| 15                             | 16QAM      | 1       | 74        | 15.27                 | 15.33                        | 15.57                    | 15.12                         | 15.17                  |                     |          |
| 15                             | 16QAM      | 36      | 0         | 15.14                 | 15.24                        | 15.38                    | 15.07                         | 15.13                  |                     |          |
| 15                             | 16QAM      | 36      | 20        | 15.11                 | 15.17                        | 15.24                    | 15.04                         | 15.22                  |                     |          |
| 15                             | 16QAM      | 36      | 39        | 15.31                 | 15.35                        | 15.52                    | 15.16                         | 15.08                  | 16.9                | 0        |
| 15                             | 16QAM      | 75      | 0         | 15.03                 | 15.07                        | 15.32                    | 15.11                         | 15.20                  |                     |          |
| 15                             | 64QAM      | 1       | 0         | 15.05                 | 15.17                        | 15.07                    | 15.28                         | 15.20                  |                     |          |
| 15                             | 64QAM      | 1       | 37        | 15.22                 | 15.23                        | 15.50                    | 15.20                         | 15.05                  |                     |          |
| 15                             | 64QAM      | 1       | 74        | 15.23                 | 15.25                        | 15.42                    | 15.13                         | 15.15                  | 16.9                | 0        |
| 15                             | 64QAM      | 36      | 0         | 15.07                 | 15.13                        | 15.14                    | 15.19                         | 15.19                  |                     |          |
| 15                             | 64QAM      | 36      | 20        | 15.18                 | 15.22                        | 15.17                    | 15.31                         | 15.45                  |                     |          |
| 15                             | 64QAM      | 36      | 39        | 15.17                 | 15.21                        | 15.27                    | 15.16                         | 15.36                  |                     |          |
| 15                             | 64QAM      | 75      | 0         | 15.42                 | 15.29                        | 15.29                    | 15.32                         | 15.28                  | 16.9                | 0        |
| 15                             | 256QAM     | 1       | 0         | 15.21                 | 15.23                        | 15.41                    | 15.17                         | 15.12                  |                     |          |
| 15                             | 256QAM     | 1       | 37        | 15.21                 | 15.21                        | 15.33                    | 15.10                         | 15.13                  |                     |          |
| 15                             | 256QAM     | 1       | 74        | 15.06                 | 15.11                        | 15.19                    | 15.25                         | 15.15                  |                     |          |
| 15                             | 256QAM     | 36      | 0         | 15.17                 | 15.16                        | 15.35                    | 15.15                         | 15.35                  | 16.9                | 0        |
| 15                             | 256QAM     | 36      | 20        | 15.07                 | 15.05                        | 15.12                    | 15.18                         | 15.39                  |                     |          |
| 15                             | 256QAM     | 36      | 39        | 15.08                 | 15.06                        | 15.26                    | 15.05                         | 15.17                  |                     |          |
| 15                             | 256QAM     | 75      | 0         | 15.16                 | 15.13                        | 15.16                    | 15.25                         | 15.17                  |                     |          |
| Channel                        |            |         |           | 39700                 | 40160                        | 40620                    | 41080                         | 41540                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 2591                  | 2547                         | 2593                     | 2639                          | 2685                   |                     |          |
| 10                             | QPSK       | 1       | 0         | 15.39                 | 15.36                        | 15.60                    | 15.26                         | 15.26                  | 16.90               | 0        |
| 10                             | QPSK       | 1       | 25        | 15.10                 | 15.25                        | 15.43                    | 15.22                         | 15.26                  |                     |          |
| 10                             | QPSK       | 1       | 49        | 15.14                 | 15.22                        | 15.27                    | 15.32                         | 15.25                  |                     |          |
| 10                             | QPSK       | 25      | 0         | 15.23                 | 15.23                        | 15.56                    | 15.20                         | 15.13                  |                     |          |
| 10                             | QPSK       | 25      | 12        | 15.26                 | 15.26                        | 15.26                    | 15.21                         | 15.12                  | 16.9                | 0        |
| 10                             | QPSK       | 25      | 25        | 15.16                 | 15.22                        | 15.32                    | 15.23                         | 15.23                  |                     |          |
| 10                             | QPSK       | 50      | 0         | 15.22                 | 15.27                        | 15.49                    | 15.06                         | 15.09                  |                     |          |
| 10                             | 16QAM      | 1       | 0         | 15.14                 | 15.19                        | 15.36                    | 15.18                         | 15.05                  |                     |          |
| 10                             | 16QAM      | 1       | 25        | 15.13                 | 15.15                        | 15.25                    | 15.30                         | 15.22                  | 16.9                | 0        |
| 10                             | 16QAM      | 1       | 49        | 15.28                 | 15.35                        | 15.50                    | 15.14                         | 15.09                  |                     |          |
| 10                             | 16QAM      | 25      | 0         | 15.17                 | 15.21                        | 15.42                    | 15.10                         | 15.12                  |                     |          |
| 10                             | 16QAM      | 25      | 12        | 15.06                 | 15.11                        | 15.21                    | 15.22                         | 15.25                  |                     |          |
| 10                             | 16QAM      | 25      | 25        | 15.24                 | 15.30                        | 15.46                    | 15.15                         | 15.07                  | 16.9                | 0        |
| 10                             | 16QAM      | 50      | 0         | 15.22                 | 15.12                        | 15.30                    | 15.10                         | 15.09                  |                     |          |
| 10                             | 64QAM      | 1       | 0         | 15.13                 | 15.10                        | 15.12                    | 15.28                         | 15.21                  |                     |          |
| 10                             | 64QAM      | 1       | 25        | 15.17                 | 15.26                        | 15.41                    | 15.20                         | 15.15                  |                     |          |
| 10                             | 64QAM      | 1       | 49        | 15.22                 | 15.20                        | 15.34                    | 15.15                         | 15.16                  | 16.9                | 0        |
| 10                             | 64QAM      | 25      | 0         | 15.07                 | 15.04                        | 15.13                    | 15.21                         | 15.21                  |                     |          |
| 10                             | 64QAM      | 25      | 12        | 15.14                 | 15.20                        | 15.21                    | 15.29                         | 15.41                  |                     |          |
| 10                             | 64QAM      | 25      | 25        | 15.20                 | 15.26                        | 15.22                    | 15.23                         | 15.32                  |                     |          |
| 10                             | 64QAM      | 50      | 0         | 15.35                 | 15.30                        | 15.19                    | 15.33                         | 15.24                  | 16.9                | 0        |
| 10                             | 256QAM     | 1       | 0         | 15.25                 | 15.18                        | 15.42                    | 15.17                         | 15.07                  |                     |          |
| 10                             | 256QAM     | 1       | 25        | 15.22                 | 15.19                        | 15.39                    | 15.10                         | 15.06                  |                     |          |
| 10                             | 256QAM     | 1       | 49        | 15.14                 | 15.10                        | 15.19                    | 15.20                         | 15.18                  |                     |          |
| 10                             | 256QAM     | 25      | 0         | 15.15                 | 15.23                        | 15.34                    | 15.10                         | 15.40                  | 16.9                | 0        |
| 10                             | 256QAM     | 25      | 12        | 15.04                 | 15.22                        | 15.16                    | 15.17                         | 15.36                  |                     |          |
| 10                             | 256QAM     | 25      | 25        | 15.22                 | 15.06                        | 15.26                    | 15.04                         | 15.24                  |                     |          |
| 10                             | 256QAM     | 50      | 0         | 15.20                 | 15.10                        | 15.16                    | 15.33                         | 15.15                  |                     |          |
| Channel                        |            |         |           | 39675                 | 40148                        | 40620                    | 41093                         | 41565                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 2498.5                | 2545.8                       | 2593                     | 2640.30                       | 2687.5                 |                     |          |
| 5                              | QPSK       | 1       | 0         | 15.29                 | 15.42                        | 15.51                    | 15.26                         | 15.24                  | 16.90               | 0        |
| 5                              | QPSK       | 1       | 12        | 15.10                 | 15.29                        | 15.39                    | 15.17                         | 15.27                  |                     |          |
| 5                              | QPSK       | 1       | 24        | 15.12                 | 15.24                        | 15.24                    | 15.32                         | 15.27                  |                     |          |
| 5                              | QPSK       | 12      | 0         | 15.24                 | 15.29                        | 15.42                    | 15.12                         | 15.13                  |                     |          |
| 5                              | QPSK       | 12      | 7         | 15.04                 | 15.26                        | 15.34                    | 15.06                         | 15.14                  | 16.9                | 0        |
| 5                              | QPSK       | 12      | 13        | 15.08                 | 15.18                        | 15.08                    | 15.24                         | 15.19                  |                     |          |
| 5                              | QPSK       | 25      | 0         | 15.18                 | 15.29                        | 15.51                    | 15.12                         | 15.01                  |                     |          |
| 5                              | 16QAM      | 1       | 0         | 15.13                 | 15.21                        | 15.37                    | 15.12                         | 15.06                  |                     |          |
| 5                              | 16QAM      | 1       | 12        | 15.17                 | 15.16                        | 15.13                    | 15.21                         | 15.29                  | 16.9                | 0        |
| 5                              | 16QAM      | 1       | 24        | 15.24                 | 15.30                        | 15.52                    | 15.13                         | 15.08                  |                     |          |
| 5                              | 16QAM      | 12      | 0         | 15.15                 | 15.14                        | 15.33                    | 15.09                         | 15.04                  |                     |          |
| 5                              | 16QAM      | 12      | 7         | 15.11                 | 15.10                        | 15.23                    | 15.22                         | 15.22                  |                     |          |
| 5                              | 16QAM      | 12      | 13        | 15.25                 | 15.27                        | 15.49                    | 15.20                         | 15.07                  | 16.9                | 0        |
| 5                              | 16QAM      | 25      | 0         | 15.11                 | 15.13                        | 15.25                    | 15.13                         | 15.14                  |                     |          |
| 5                              | 64QAM      | 1       | 0         | 15.15                 | 15.14                        | 15.08                    | 15.26                         | 15.22                  |                     |          |
| 5                              | 64QAM      | 1       | 12        | 15.15                 | 15.28                        | 15.47                    | 15.19                         | 15.07                  |                     |          |
| 5                              | 64QAM      | 1       | 24        | 15.04                 | 15.21                        | 15.35                    | 15.13                         | 15.11                  | 16.9                | 0        |
| 5                              | 64QAM      | 12      | 0         | 15.04                 | 15.08                        | 15.11                    | 15.12                         | 15.23                  |                     |          |
| 5                              | 64QAM      | 12      | 7         | 15.18                 | 15.25                        | 15.14                    | 15.30                         | 15.44                  |                     |          |
| 5                              | 64QAM      | 12      | 13        | 15.22                 | 15.23                        | 15.32                    | 15.25                         | 15.34                  |                     |          |
| 5                              | 64QAM      | 25      | 0         | 15.35                 | 15.27                        | 15.28                    | 15.37                         | 15.28                  | 16.9                | 0        |
| 5                              | 256QAM     | 1       | 0         | 15.24                 | 15.22                        | 15.39                    | 15.25                         | 15.15                  |                     |          |
| 5                              | 256QAM     | 1       | 12        | 15.11                 | 15.14                        | 15.38                    | 15.13                         | 15.14                  |                     |          |
| 5                              | 256QAM     | 1       | 24        | 15.16                 | 15.07                        | 15.16                    | 15.16                         | 15.14                  |                     |          |
| 5                              | 256QAM     | 12      | 0         | 15.20                 | 15.24                        | 15.33                    | 15.12                         | 15.35                  | 16.9                | 0        |
| 5                              | 256QAM     | 12      | 7         | 15.01                 | 15.01                        | 15.14                    | 15.25                         | 15.30                  |                     |          |
| 5                              | 256QAM     | 12      | 13        | 15.11                 | 15.07                        | 15.24                    | 15.05                         | 15.18                  |                     |          |
| 5                              | 256QAM     | 25      | 0         | 15.22                 | 15.08                        | 15.16                    | 15.27                         | 15.19                  |                     |          |

| Band 42 Part 27Q Ant2 DSI3 Simultaneous |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                                 |            |         |           | 42190                 | 42590                    | 42990                  |                     |          |  |
| Frequency (MHz)                         |            |         |           | 3460                  | 3500                     | 3540                   |                     |          |  |
| 20                                      | QPSK       | 1       | 0         | 16.84                 | 17.14                    | 16.69                  | 18.6                | 0        |  |
| 20                                      | QPSK       | 1       | 49        | 16.88                 | 17.12                    | 16.76                  |                     |          |  |
| 20                                      | QPSK       | 1       | 99        | 16.92                 | 17.11                    | 16.83                  |                     |          |  |
| 20                                      | QPSK       | 50      | 0         | 16.88                 | 17.04                    | 16.72                  | 18.6                | 0        |  |
| 20                                      | QPSK       | 50      | 24        | 16.71                 | 16.98                    | 16.76                  |                     |          |  |
| 20                                      | QPSK       | 50      | 50        | 16.79                 | 17.03                    | 16.75                  |                     |          |  |
| 20                                      | QPSK       | 100     | 0         | 16.84                 | 16.94                    | 16.65                  | 18.6                | 0        |  |
| 20                                      | 16QAM      | 1       | 0         | 16.74                 | 17.10                    | 16.66                  |                     |          |  |
| 20                                      | 16QAM      | 1       | 49        | 16.84                 | 17.01                    | 16.64                  |                     |          |  |
| 20                                      | 16QAM      | 1       | 99        | 16.80                 | 16.99                    | 16.74                  | 18.6                | 0        |  |
| 20                                      | 16QAM      | 50      | 0         | 16.74                 | 17.00                    | 16.65                  |                     |          |  |
| 20                                      | 16QAM      | 50      | 24        | 16.62                 | 16.86                    | 16.64                  |                     |          |  |
| 20                                      | 16QAM      | 50      | 50        | 16.66                 | 16.92                    | 16.64                  | 18.6                | 0        |  |
| 20                                      | 16QAM      | 100     | 0         | 16.81                 | 16.82                    | 16.61                  |                     |          |  |
| 20                                      | 64QAM      | 1       | 0         | 16.72                 | 17.01                    | 16.62                  |                     |          |  |
| 20                                      | 64QAM      | 1       | 49        | 16.79                 | 16.99                    | 16.68                  | 18.6                | 0        |  |
| 20                                      | 64QAM      | 1       | 99        | 16.89                 | 17.04                    | 16.81                  |                     |          |  |
| 20                                      | 64QAM      | 50      | 0         | 16.75                 | 16.91                    | 16.68                  |                     |          |  |
| 20                                      | 64QAM      | 50      | 24        | 16.65                 | 16.84                    | 16.62                  | 18.6                | 0        |  |
| 20                                      | 64QAM      | 50      | 50        | 16.68                 | 16.95                    | 16.66                  |                     |          |  |
| 20                                      | 64QAM      | 100     | 0         | 16.75                 | 16.89                    | 16.61                  |                     |          |  |
| 20                                      | 256QAM     | 1       | 0         | 16.80                 | 17.11                    | 16.63                  | 18.6                | 0        |  |
| 20                                      | 256QAM     | 1       | 49        | 16.77                 | 17.03                    | 16.66                  |                     |          |  |
| 20                                      | 256QAM     | 1       | 99        | 16.87                 | 17.05                    | 16.71                  |                     |          |  |
| 20                                      | 256QAM     | 50      | 0         | 16.86                 | 16.95                    | 16.68                  | 18.6                | 0        |  |
| 20                                      | 256QAM     | 50      | 24        | 16.67                 | 16.92                    | 16.64                  |                     |          |  |
| 20                                      | 256QAM     | 50      | 50        | 16.73                 | 16.97                    | 16.71                  |                     |          |  |
| 20                                      | 256QAM     | 100     | 0         | 16.73                 | 16.92                    | 16.60                  |                     |          |  |
| Channel                                 |            |         |           | 42165                 | 42590                    | 43015                  |                     |          |  |
| Frequency (MHz)                         |            |         |           | 3457.5                | 3500                     | 3542.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15                                      | QPSK       | 1       | 0         | 16.82                 | 17.13                    | 16.64                  | 18.6                | 0        |  |
| 15                                      | QPSK       | 1       | 37        | 16.88                 | 17.02                    | 16.66                  |                     |          |  |
| 15                                      | QPSK       | 1       | 74        | 16.82                 | 17.10                    | 16.79                  |                     |          |  |
| 15                                      | QPSK       | 36      | 0         | 16.77                 | 16.92                    | 16.67                  | 18.6                | 0        |  |
| 15                                      | QPSK       | 36      | 20        | 16.69                 | 16.88                    | 16.75                  |                     |          |  |
| 15                                      | QPSK       | 36      | 39        | 16.67                 | 16.99                    | 16.72                  |                     |          |  |
| 15                                      | QPSK       | 75      | 0         | 16.79                 | 16.85                    | 16.62                  | 18.6                | 0        |  |
| 15                                      | 16QAM      | 1       | 0         | 16.73                 | 17.07                    | 16.70                  |                     |          |  |
| 15                                      | 16QAM      | 1       | 37        | 16.81                 | 17.01                    | 16.66                  |                     |          |  |
| 15                                      | 16QAM      | 1       | 74        | 16.80                 | 17.01                    | 16.79                  | 18.6                | 0        |  |
| 15                                      | 16QAM      | 36      | 0         | 16.77                 | 16.96                    | 16.62                  |                     |          |  |
| 15                                      | 16QAM      | 36      | 20        | 16.64                 | 16.83                    | 16.67                  |                     |          |  |
| 15                                      | 16QAM      | 36      | 39        | 16.67                 | 16.88                    | 16.60                  | 18.6                | 0        |  |
| 15                                      | 16QAM      | 75      | 0         | 16.86                 | 16.79                    | 16.65                  |                     |          |  |
| 15                                      | 64QAM      | 1       | 0         | 16.75                 | 17.06                    | 16.67                  |                     |          |  |
| 15                                      | 64QAM      | 1       | 37        | 16.75                 | 16.97                    | 16.62                  | 18.6                | 0        |  |
| 15                                      | 64QAM      | 1       | 74        | 16.88                 | 17.05                    | 16.79                  |                     |          |  |
| 15                                      | 64QAM      | 36      | 0         | 16.74                 | 16.86                    | 16.66                  |                     |          |  |
| 15                                      | 64QAM      | 36      | 20        | 16.65                 | 16.90                    | 16.60                  | 18.6                | 0        |  |
| 15                                      | 64QAM      | 36      | 39        | 16.67                 | 17.00                    | 16.69                  |                     |          |  |
| 15                                      | 64QAM      | 75      | 0         | 16.76                 | 16.90                    | 16.60                  |                     |          |  |
| 15                                      | 256QAM     | 1       | 0         | 16.84                 | 17.11                    | 16.65                  | 18.6                | 0        |  |
| 15                                      | 256QAM     | 1       | 37        | 16.82                 | 17.01                    | 16.72                  |                     |          |  |
| 15                                      | 256QAM     | 1       | 74        | 16.82                 | 17.07                    | 16.73                  |                     |          |  |
| 15                                      | 256QAM     | 36      | 0         | 16.90                 | 16.99                    | 16.65                  | 18.6                | 0        |  |
| 15                                      | 256QAM     | 36      | 20        | 16.72                 | 16.87                    | 16.64                  |                     |          |  |
| 15                                      | 256QAM     | 36      | 39        | 16.73                 | 17.02                    | 16.70                  |                     |          |  |
| 15                                      | 256QAM     | 75      | 0         | 16.69                 | 16.87                    | 16.66                  |                     |          |  |
| Channel                                 |            |         |           | 42140                 | 42590                    | 43040                  |                     |          |  |
| Frequency (MHz)                         |            |         |           | 3455                  | 3500                     | 3545                   | Tune-up limit (dBm) | MPR (dB) |  |
| 10                                      | QPSK       | 1       | 0         | 16.79                 | 17.11                    | 16.77                  | 18.6                | 0        |  |
| 10                                      | QPSK       | 1       | 25        | 16.75                 | 17.05                    | 16.70                  |                     |          |  |
| 10                                      | QPSK       | 1       | 49        | 16.82                 | 16.96                    | 16.69                  |                     |          |  |
| 10                                      | QPSK       | 25      | 0         | 16.73                 | 16.90                    | 16.62                  | 18.6                | 0        |  |
| 10                                      | QPSK       | 25      | 12        | 16.62                 | 16.84                    | 16.61                  |                     |          |  |
| 10                                      | QPSK       | 25      | 25        | 16.68                 | 16.90                    | 16.64                  |                     |          |  |
| 10                                      | QPSK       | 50      | 0         | 16.71                 | 16.85                    | 16.86                  | 18.6                | 0        |  |
| 10                                      | 16QAM      | 1       | 0         | 16.69                 | 17.10                    | 16.64                  |                     |          |  |
| 10                                      | 16QAM      | 1       | 25        | 16.82                 | 16.97                    | 16.62                  |                     |          |  |
| 10                                      | 16QAM      | 1       | 49        | 16.81                 | 16.93                    | 16.73                  | 18.6                | 0        |  |
| 10                                      | 16QAM      | 25      | 0         | 16.73                 | 16.96                    | 16.60                  |                     |          |  |
| 10                                      | 16QAM      | 25      | 12        | 16.65                 | 16.91                    | 16.60                  |                     |          |  |
| 10                                      | 16QAM      | 25      | 25        | 16.61                 | 16.96                    | 16.66                  | 18.6                | 0        |  |
| 10                                      | 16QAM      | 50      | 0         | 16.85                 | 16.78                    | 16.62                  |                     |          |  |
| 10                                      | 64QAM      | 1       | 0         | 16.73                 | 17.00                    | 16.61                  |                     |          |  |
| 10                                      | 64QAM      | 1       | 25        | 16.75                 | 16.97                    | 16.64                  | 18.6                | 0        |  |
| 10                                      | 64QAM      | 1       | 49        | 16.93                 | 17.05                    | 16.86                  |                     |          |  |
| 10                                      | 64QAM      | 25      | 0         | 16.73                 | 16.89                    | 16.64                  |                     |          |  |
| 10                                      | 64QAM      | 25      | 12        | 16.68                 | 16.89                    | 16.68                  | 18.6                | 0        |  |
| 10                                      | 64QAM      | 25      | 25        | 16.63                 | 16.93                    | 16.70                  |                     |          |  |
| 10                                      | 64QAM      | 50      | 0         | 16.72                 | 16.92                    | 16.63                  |                     |          |  |
| 10                                      | 256QAM     | 1       | 0         | 16.75                 | 17.08                    | 16.62                  | 18.6                | 0        |  |
| 10                                      | 256QAM     | 1       | 25        | 16.77                 | 17.01                    | 16.61                  |                     |          |  |
| 10                                      | 256QAM     | 1       | 49        | 16.91                 | 17.05                    | 16.65                  |                     |          |  |
| 10                                      | 256QAM     | 25      | 0         | 16.84                 | 16.94                    | 16.74                  | 18.6                | 0        |  |
| 10                                      | 256QAM     | 25      | 12        | 16.70                 | 16.91                    | 16.69                  |                     |          |  |
| 10                                      | 256QAM     | 25      | 25        | 16.74                 | 16.98                    | 16.68                  |                     |          |  |
| 10                                      | 256QAM     | 50      | 0         | 16.69                 | 16.91                    | 16.60                  |                     |          |  |
| Channel                                 |            |         |           | 42115                 | 42590                    | 43065                  |                     |          |  |
| Frequency (MHz)                         |            |         |           | 3492.5                | 3500                     | 3547.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| 5                                       | QPSK       | 1       | 0         | 16.75                 | 17.09                    | 16.63                  | 18.6                | 0        |  |
| 5                                       | QPSK       | 1       | 12        | 16.81                 | 17.03                    | 16.69                  |                     |          |  |
| 5                                       | QPSK       | 1       | 24        | 16.81                 | 17.06                    | 16.76                  |                     |          |  |
| 5                                       | QPSK       | 12      | 0         | 16.64                 | 17.00                    | 16.66                  | 18.6                | 0        |  |
| 5                                       | QPSK       | 12      | 7         | 16.62                 | 16.93                    | 16.66                  |                     |          |  |
| 5                                       | QPSK       | 12      | 13        | 16.73                 | 16.95                    | 16.70                  |                     |          |  |
| 5                                       | QPSK       | 25      | 0         | 16.76                 | 16.85                    | 16.61                  | 18.6                | 0        |  |
| 5                                       | 16QAM      | 1       | 0         | 16.71                 | 17.08                    | 16.70                  |                     |          |  |
| 5                                       | 16QAM      | 1       | 12        | 16.84                 | 17.05                    | 16.62                  |                     |          |  |
| 5                                       | 16QAM      | 1       | 24        | 16.75                 | 17.02                    | 16.73                  | 18.6                | 0        |  |
| 5                                       | 16QAM      | 12      | 0         | 16.69                 | 17.00                    | 16.71                  |                     |          |  |
| 5                                       | 16QAM      | 12      | 7         | 16.62                 | 16.85                    | 16.70                  |                     |          |  |
| 5                                       | 16QAM      | 12      | 13        | 16.70                 | 16.94                    | 16.68                  | 18.6                | 0        |  |
| 5                                       | 16QAM      | 25      | 0         | 16.83                 | 16.86                    | 16.62                  |                     |          |  |
| 5                                       | 64QAM      | 1       | 0         | 16.73                 | 17.06                    | 16.63                  |                     |          |  |
| 5                                       | 64QAM      | 1       | 12        | 16.80                 | 16.98                    | 16.64                  | 18.6                | 0        |  |
| 5                                       | 64QAM      | 1       | 24        | 16.83                 | 17.04                    | 16.82                  |                     |          |  |
| 5                                       | 64QAM      | 12      | 0         | 16.78                 | 16.85                    | 16.66                  |                     |          |  |
| 5                                       | 64QAM      | 12      | 7         | 16.68                 | 16.79                    | 16.63                  | 18.6                | 0        |  |
| 5                                       | 64QAM      | 12      | 13        | 16.66                 | 16.95                    | 16.63                  |                     |          |  |
| 5                                       | 64QAM      | 25      | 0         | 16.75                 | 16.91                    | 16.66                  |                     |          |  |
| 5                                       | 256QAM     | 1       | 0         | 16.84                 | 17.09                    | 16.63                  | 18.6                | 0        |  |
| 5                                       | 256QAM     | 1       | 12        | 16.82                 | 17.05                    | 16.62                  |                     |          |  |
| 5                                       | 256QAM     | 1       | 24        | 16.87                 | 17.09                    | 16.72                  |                     |          |  |
| 5                                       | 256QAM     | 12      | 0         | 16.84                 | 16.92                    | 16.70                  | 18.6                | 0        |  |
| 5                                       | 256QAM     | 12      | 7         | 16.63                 | 16.90                    | 16.60                  |                     |          |  |
| 5                                       | 256QAM     | 12      | 13        | 16.78                 | 16.93                    | 16.76                  |                     |          |  |
| 5                                       | 256QAM     | 25      | 0         | 16.76                 | 16.87                    | 16.60                  |                     |          |  |

| Band 7 Ant5 DSI3 Simultaneous |            |         |           |                      |                         |                       |                     |          |  |
|-------------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]                      | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                       |            |         |           | 20850                | 21100                   | 21350                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)               |            |         |           | 2510                 | 2535                    | 2560                  |                     |          |  |
| 20                            | QPSK       | 1       | 0         | 17.60                | 17.86                   | 17.78                 | 19.1                | 0        |  |
| 20                            | QPSK       | 1       | 49        | 17.46                | 17.77                   | 17.58                 |                     |          |  |
| 20                            | QPSK       | 1       | 99        | 17.43                | 17.63                   | 17.57                 |                     |          |  |
| 20                            | QPSK       | 50      | 0         | 17.44                | 17.77                   | 17.60                 | 19.1                | 0        |  |
| 20                            | QPSK       | 50      | 24        | 17.32                | 17.54                   | 17.40                 |                     |          |  |
| 20                            | QPSK       | 50      | 50        | 17.37                | 17.52                   | 17.53                 |                     |          |  |
| 20                            | QPSK       | 100     | 0         | 17.33                | 17.52                   | 17.41                 | 19.1                | 0        |  |
| 20                            | 16QAM      | 1       | 0         | 17.52                | 17.55                   | 17.62                 |                     |          |  |
| 20                            | 16QAM      | 1       | 49        | 17.30                | 17.50                   | 17.48                 |                     |          |  |
| 20                            | 16QAM      | 1       | 99        | 17.39                | 17.57                   | 17.51                 | 19.1                | 0        |  |
| 20                            | 16QAM      | 50      | 0         | 17.36                | 17.52                   | 17.49                 |                     |          |  |
| 20                            | 16QAM      | 50      | 24        | 17.17                | 17.36                   | 17.36                 |                     |          |  |
| 20                            | 16QAM      | 50      | 50        | 17.28                | 17.42                   | 17.42                 | 19.1                | 0        |  |
| 20                            | 16QAM      | 100     | 0         | 17.25                | 17.43                   | 17.36                 |                     |          |  |
| 20                            | 64QAM      | 1       | 0         | 17.44                | 17.65                   | 17.64                 | 19.1                | 0        |  |
| 20                            | 64QAM      | 1       | 49        | 17.17                | 17.63                   | 17.42                 |                     |          |  |
| 20                            | 64QAM      | 1       | 99        | 17.36                | 17.59                   | 17.48                 |                     |          |  |
| 20                            | 64QAM      | 50      | 0         | 17.33                | 17.64                   | 17.43                 | 19.1                | 0        |  |
| 20                            | 64QAM      | 50      | 24        | 17.15                | 17.38                   | 17.29                 |                     |          |  |
| 20                            | 64QAM      | 50      | 50        | 17.26                | 17.46                   | 17.42                 |                     |          |  |
| 20                            | 64QAM      | 100     | 0         | 17.30                | 17.41                   | 17.33                 | 19                  | 0.1      |  |
| 20                            | 256QAM     | 1       | 0         | 17.46                | 17.67                   | 17.65                 |                     |          |  |
| 20                            | 256QAM     | 1       | 49        | 17.27                | 17.61                   | 17.52                 |                     |          |  |
| 20                            | 256QAM     | 1       | 99        | 17.25                | 17.56                   | 17.44                 | 19                  | 0.1      |  |
| 20                            | 256QAM     | 50      | 0         | 17.43                | 17.72                   | 17.67                 |                     |          |  |
| 20                            | 256QAM     | 50      | 24        | 17.32                | 17.59                   | 17.49                 |                     |          |  |
| 20                            | 256QAM     | 50      | 50        | 17.31                | 17.53                   | 17.50                 | 19                  | 0.1      |  |
| 20                            | 256QAM     | 100     | 0         | 17.26                | 17.44                   | 17.35                 |                     |          |  |
| Channel                       |            |         |           | 20825                | 21100                   | 21375                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)               |            |         |           | 2507.5               | 2535                    | 2562.5                |                     |          |  |
| 15                            | QPSK       | 1       | 0         | 17.57                | 17.65                   | 17.66                 | 19.1                | 0        |  |
| 15                            | QPSK       | 1       | 37        | 17.25                | 17.56                   | 17.44                 |                     |          |  |
| 15                            | QPSK       | 1       | 74        | 17.38                | 17.50                   | 17.55                 |                     |          |  |
| 15                            | QPSK       | 36      | 0         | 17.41                | 17.60                   | 17.44                 | 19.1                | 0        |  |
| 15                            | QPSK       | 36      | 20        | 17.30                | 17.46                   | 17.28                 |                     |          |  |
| 15                            | QPSK       | 36      | 39        | 17.24                | 17.38                   | 17.44                 |                     |          |  |
| 15                            | QPSK       | 75      | 0         | 17.25                | 17.41                   | 17.26                 | 19.1                | 0        |  |
| 15                            | 16QAM      | 1       | 0         | 17.43                | 17.46                   | 17.57                 |                     |          |  |
| 15                            | 16QAM      | 1       | 37        | 17.13                | 17.38                   | 17.34                 |                     |          |  |
| 15                            | 16QAM      | 1       | 74        | 17.21                | 17.54                   | 17.37                 | 19.1                | 0        |  |
| 15                            | 16QAM      | 36      | 0         | 17.32                | 17.37                   | 17.45                 |                     |          |  |
| 15                            | 16QAM      | 36      | 20        | 17.13                | 17.20                   | 17.24                 |                     |          |  |
| 15                            | 16QAM      | 36      | 39        | 17.17                | 17.25                   | 17.39                 | 19.1                | 0        |  |
| 15                            | 16QAM      | 75      | 0         | 17.22                | 17.29                   | 17.34                 |                     |          |  |
| 15                            | 64QAM      | 1       | 0         | 17.39                | 17.57                   | 17.49                 |                     |          |  |
| 15                            | 64QAM      | 1       | 37        | 17.33                | 17.51                   | 17.28                 | 19.1                | 0        |  |
| 15                            | 64QAM      | 1       | 74        | 17.27                | 17.53                   | 17.31                 |                     |          |  |
| 15                            | 64QAM      | 36      | 0         | 17.15                | 17.48                   | 17.34                 |                     |          |  |
| 15                            | 64QAM      | 36      | 20        | 17.11                | 17.26                   | 17.26                 | 19                  | 0.1      |  |
| 15                            | 64QAM      | 36      | 39        | 17.19                | 17.33                   | 17.28                 |                     |          |  |
| 15                            | 64QAM      | 75      | 0         | 17.18                | 17.24                   | 17.21                 |                     |          |  |
| 15                            | 256QAM     | 1       | 0         | 17.50                | 17.73                   | 17.66                 | 19                  | 0.1      |  |
| 15                            | 256QAM     | 1       | 37        | 17.35                | 17.62                   | 17.55                 |                     |          |  |
| 15                            | 256QAM     | 1       | 74        | 17.30                | 17.59                   | 17.50                 |                     |          |  |
| 15                            | 256QAM     | 36      | 0         | 17.47                | 17.74                   | 17.67                 | 19                  | 0.1      |  |
| 15                            | 256QAM     | 36      | 20        | 17.29                | 17.57                   | 17.58                 |                     |          |  |
| 15                            | 256QAM     | 36      | 39        | 17.27                | 17.55                   | 17.48                 |                     |          |  |
| 15                            | 256QAM     | 75      | 0         | 17.29                | 17.57                   | 17.46                 | 19.1                | 0        |  |
| Channel                       |            |         |           | 20800                | 21100                   | 21400                 |                     |          |  |
| Frequency (MHz)               |            |         |           | 2505                 | 2535                    | 2565                  | Tune-up limit (dBm) | MPR (dB) |  |
| 10                            | QPSK       | 1       | 0         | 17.58                | 17.66                   | 17.52                 |                     | 19.1     |  |
| 10                            | QPSK       | 1       | 25        | 17.17                | 17.54                   | 17.51                 |                     |          |  |
| 10                            | QPSK       | 1       | 49        | 17.27                | 17.48                   | 17.46                 |                     |          |  |
| 10                            | QPSK       | 25      | 0         | 17.40                | 17.61                   | 17.49                 | 19.1                | 0        |  |
| 10                            | QPSK       | 25      | 12        | 17.28                | 17.48                   | 17.37                 |                     |          |  |
| 10                            | QPSK       | 25      | 25        | 17.29                | 17.45                   | 17.44                 |                     |          |  |
| 10                            | QPSK       | 50      | 0         | 17.28                | 17.39                   | 17.31                 | 19.1                | 0        |  |
| 10                            | 16QAM      | 1       | 0         | 17.40                | 17.47                   | 17.48                 |                     |          |  |
| 10                            | 16QAM      | 1       | 25        | 17.25                | 17.34                   | 17.36                 |                     |          |  |
| 10                            | 16QAM      | 1       | 49        | 17.28                | 17.47                   | 17.47                 | 19.1                | 0        |  |
| 10                            | 16QAM      | 25      | 0         | 17.21                | 17.45                   | 17.35                 |                     |          |  |
| 10                            | 16QAM      | 25      | 12        | 17.14                | 17.20                   | 17.25                 |                     |          |  |
| 10                            | 16QAM      | 25      | 25        | 17.10                | 17.39                   | 17.32                 | 19.1                | 0        |  |
| 10                            | 16QAM      | 50      | 0         | 17.14                | 17.39                   | 17.32                 |                     |          |  |
| 10                            | 64QAM      | 1       | 0         | 17.40                | 17.61                   | 17.50                 |                     |          |  |
| 10                            | 64QAM      | 1       | 25        | 17.14                | 17.47                   | 17.38                 | 19.1                | 0        |  |
| 10                            | 64QAM      | 1       | 49        | 17.28                | 17.51                   | 17.43                 |                     |          |  |
| 10                            | 64QAM      | 25      | 0         | 17.25                | 17.46                   | 17.28                 |                     |          |  |
| 10                            | 64QAM      | 25      | 12        | 17.15                | 17.35                   | 17.11                 | 19.1                | 0        |  |
| 10                            | 64QAM      | 25      | 25        | 17.11                | 17.31                   | 17.37                 |                     |          |  |
| 10                            | 64QAM      | 50      | 0         | 17.16                | 17.34                   | 17.16                 |                     |          |  |
| 10                            | 256QAM     | 1       | 0         | 17.37                | 17.63                   | 17.50                 | 19                  | 0.1      |  |
| 10                            | 256QAM     | 1       | 25        | 17.21                | 17.53                   | 17.47                 |                     |          |  |
| 10                            | 256QAM     | 1       | 49        | 17.14                | 17.42                   | 17.37                 |                     |          |  |
| 10                            | 256QAM     | 25      | 0         | 17.42                | 17.57                   | 17.52                 | 19                  | 0.1      |  |
| 10                            | 256QAM     | 25      | 12        | 17.27                | 17.51                   | 17.47                 |                     |          |  |
| 10                            | 256QAM     | 25      | 25        | 17.13                | 17.44                   | 17.34                 |                     |          |  |
| 10                            | 256QAM     | 50      | 0         | 17.43                | 17.57                   | 17.49                 | 19                  | 0.1      |  |
| Channel                       |            |         |           | 20775                | 21100                   | 21425                 |                     |          |  |
| Frequency (MHz)               |            |         |           | 2502.5               | 2535                    | 2567.5                | Tune-up limit (dBm) | MPR (dB) |  |
| 5                             | QPSK       | 1       | 0         | 17.50                | 17.69                   | 17.75                 |                     | 19.1     |  |
| 5                             | QPSK       | 1       | 12        | 17.27                | 17.60                   | 17.48                 |                     |          |  |
| 5                             | QPSK       | 1       | 24        | 17.31                | 17.55                   | 17.52                 |                     |          |  |
| 5                             | QPSK       | 12      | 0         | 17.37                | 17.62                   | 17.57                 | 19.1                | 0        |  |
| 5                             | QPSK       | 12      | 7         | 17.15                | 17.51                   | 17.38                 |                     |          |  |
| 5                             | QPSK       | 12      | 13        | 17.21                | 17.44                   | 17.38                 |                     |          |  |
| 5                             | QPSK       | 25      | 0         | 17.22                | 17.43                   | 17.24                 | 19.1                | 0        |  |
| 5                             | 16QAM      | 1       | 0         | 17.35                | 17.49                   | 17.58                 |                     |          |  |
| 5                             | 16QAM      | 1       | 12        | 17.28                | 17.33                   | 17.42                 |                     |          |  |
| 5                             | 16QAM      | 1       | 24        | 17.24                | 17.43                   | 17.41                 | 19.1                | 0        |  |
| 5                             | 16QAM      | 12      | 0         | 17.21                | 17.36                   | 17.42                 |                     |          |  |
| 5                             | 16QAM      | 12      | 7         | 17.15                | 17.29                   | 17.20                 |                     |          |  |
| 5                             | 16QAM      | 12      | 13        | 17.13                | 17.34                   | 17.35                 | 19.1                | 0        |  |
| 5                             | 16QAM      | 25      | 0         | 17.13                | 17.32                   | 17.27                 |                     |          |  |
| 5                             | 64QAM      | 1       | 0         | 17.28                | 17.47                   | 17.59                 |                     |          |  |
| 5                             | 64QAM      | 1       | 12        | 17.13                | 17.47                   | 17.27                 | 19.1                | 0        |  |
| 5                             | 64QAM      | 1       | 24        | 17.28                | 17.43                   | 17.36                 |                     |          |  |
| 5                             | 64QAM      | 12      | 0         | 17.26                | 17.54                   | 17.29                 |                     |          |  |
| 5                             | 64QAM      | 12      | 7         | 17.10                | 17.22                   | 17.25                 | 19.1                | 0        |  |
| 5                             | 64QAM      | 12      | 13        | 17.22                | 17.35                   | 17.37                 |                     |          |  |
| 5                             | 64QAM      | 25      | 0         | 17.19                | 17.28                   | 17.28                 |                     |          |  |
| 5                             | 256QAM     | 1       | 0         | 17.52                | 17.64                   | 17.55                 | 19                  | 0.1      |  |
| 5                             | 256QAM     | 1       | 12        | 17.37                | 17.51                   | 17.34                 |                     |          |  |
| 5                             | 256QAM     | 1       | 24        | 17.20                | 17.45                   | 17.43                 |                     |          |  |
| 5                             | 256QAM     | 12      | 0         | 17.29                | 17.62                   | 17.56                 | 19                  | 0.1      |  |
| 5                             | 256QAM     | 12      | 7         | 17.16                | 17.47                   | 17.39                 |                     |          |  |
| 5                             | 256QAM     | 12      | 13        | 17.18                | 17.45                   | 17.37                 |                     |          |  |
| 5                             | 256QAM     | 25      | 0         | 17.25                | 17.58                   | 17.51                 |                     |          |  |

| Band 38 Ant5 DSI3 Simultaneous |            |         |           |                       |                          |                        |                     |          |  |
|--------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                       | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                        |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |  |
| Frequency (MHz)                |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20                             | QPSK       | 1       | 0         | 16.98                 | 17.01                    | 16.87                  | 18                  | 0        |  |
| 20                             | QPSK       | 1       | 49        | 16.69                 | 16.81                    | 16.81                  |                     |          |  |
| 20                             | QPSK       | 1       | 99        | 16.66                 | 16.79                    | 16.74                  |                     |          |  |
| 20                             | QPSK       | 50      | 0         | 16.72                 | 16.88                    | 16.76                  | 18                  | 0        |  |
| 20                             | QPSK       | 50      | 24        | 16.63                 | 16.71                    | 16.69                  |                     |          |  |
| 20                             | QPSK       | 50      | 50        | 16.53                 | 16.67                    | 16.64                  |                     |          |  |
| 20                             | QPSK       | 100     | 0         | 16.45                 | 16.60                    | 16.54                  | 18                  | 0        |  |
| 20                             | 16QAM      | 1       | 0         | 16.84                 | 16.84                    | 16.72                  |                     |          |  |
| 20                             | 16QAM      | 1       | 49        | 16.58                 | 16.68                    | 16.66                  |                     |          |  |
| 20                             | 16QAM      | 1       | 99        | 16.51                 | 16.68                    | 16.68                  | 18                  | 0        |  |
| 20                             | 16QAM      | 50      | 0         | 16.70                 | 16.66                    | 16.61                  |                     |          |  |
| 20                             | 16QAM      | 50      | 24        | 16.57                 | 16.56                    | 16.61                  |                     |          |  |
| 20                             | 16QAM      | 50      | 50        | 16.39                 | 16.57                    | 16.52                  | 18                  | 0        |  |
| 20                             | 16QAM      | 100     | 0         | 16.40                 | 16.51                    | 16.50                  |                     |          |  |
| 20                             | 64QAM      | 1       | 0         | 16.83                 | 16.84                    | 16.75                  |                     |          |  |
| 20                             | 64QAM      | 1       | 49        | 16.59                 | 16.75                    | 16.71                  | 18                  | 0        |  |
| 20                             | 64QAM      | 1       | 99        | 16.51                 | 16.70                    | 16.67                  |                     |          |  |
| 20                             | 64QAM      | 50      | 0         | 16.69                 | 16.62                    | 16.62                  |                     |          |  |
| 20                             | 64QAM      | 50      | 24        | 16.53                 | 16.67                    | 16.64                  | 18                  | 0        |  |
| 20                             | 64QAM      | 50      | 50        | 16.39                 | 16.52                    | 16.55                  |                     |          |  |
| 20                             | 64QAM      | 100     | 0         | 16.33                 | 16.45                    | 16.41                  |                     |          |  |
| 20                             | 256QAM     | 1       | 0         | 16.77                 | 16.81                    | 16.78                  | 18                  | 0        |  |
| 20                             | 256QAM     | 1       | 49        | 16.56                 | 16.72                    | 16.65                  |                     |          |  |
| 20                             | 256QAM     | 1       | 99        | 16.51                 | 16.73                    | 16.64                  |                     |          |  |
| 20                             | 256QAM     | 50      | 0         | 16.70                 | 16.71                    | 16.65                  | 18                  | 0        |  |
| 20                             | 256QAM     | 50      | 24        | 16.47                 | 16.55                    | 16.62                  |                     |          |  |
| 20                             | 256QAM     | 50      | 50        | 16.42                 | 16.61                    | 16.55                  |                     |          |  |
| 20                             | 256QAM     | 100     | 0         | 16.40                 | 16.55                    | 16.42                  |                     |          |  |
| Channel                        |            |         |           | 37825                 | 38000                    | 38175                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |  |
| 15                             | QPSK       | 1       | 0         | 16.81                 | 16.77                    | 16.72                  | 18                  | 0        |  |
| 15                             | QPSK       | 1       | 37        | 16.55                 | 16.72                    | 16.68                  |                     |          |  |
| 15                             | QPSK       | 1       | 74        | 16.57                 | 16.73                    | 16.60                  |                     |          |  |
| 15                             | QPSK       | 36      | 0         | 16.82                 | 16.68                    | 16.60                  | 18                  | 0        |  |
| 15                             | QPSK       | 36      | 20        | 16.50                 | 16.62                    | 16.58                  |                     |          |  |
| 15                             | QPSK       | 36      | 39        | 16.44                 | 16.60                    | 16.51                  |                     |          |  |
| 15                             | QPSK       | 75      | 0         | 16.34                 | 16.55                    | 16.43                  | 18                  | 0        |  |
| 15                             | 16QAM      | 1       | 0         | 16.74                 | 16.78                    | 16.57                  |                     |          |  |
| 15                             | 16QAM      | 1       | 37        | 16.49                 | 16.62                    | 16.59                  |                     |          |  |
| 15                             | 16QAM      | 1       | 74        | 16.36                 | 16.60                    | 16.63                  | 18                  | 0        |  |
| 15                             | 16QAM      | 36      | 0         | 16.57                 | 16.59                    | 16.54                  |                     |          |  |
| 15                             | 16QAM      | 36      | 20        | 16.48                 | 16.47                    | 16.55                  |                     |          |  |
| 15                             | 16QAM      | 36      | 39        | 16.27                 | 16.47                    | 16.45                  | 18                  | 0        |  |
| 15                             | 16QAM      | 75      | 0         | 16.35                 | 16.47                    | 16.36                  |                     |          |  |
| 15                             | 64QAM      | 1       | 0         | 16.73                 | 16.69                    | 16.65                  |                     |          |  |
| 15                             | 64QAM      | 1       | 37        | 16.46                 | 16.68                    | 16.57                  | 18                  | 0        |  |
| 15                             | 64QAM      | 1       | 74        | 16.38                 | 16.66                    | 16.61                  |                     |          |  |
| 15                             | 64QAM      | 36      | 0         | 16.57                 | 16.53                    | 16.47                  |                     |          |  |
| 15                             | 64QAM      | 36      | 20        | 16.47                 | 16.59                    | 16.48                  | 18                  | 0        |  |
| 15                             | 64QAM      | 36      | 39        | 16.33                 | 16.37                    | 16.49                  |                     |          |  |
| 15                             | 64QAM      | 75      | 0         | 16.25                 | 16.37                    | 16.27                  |                     |          |  |
| 15                             | 256QAM     | 1       | 0         | 16.64                 | 16.70                    | 16.64                  | 18                  | 0        |  |
| 15                             | 256QAM     | 1       | 37        | 16.43                 | 16.62                    | 16.55                  |                     |          |  |
| 15                             | 256QAM     | 1       | 74        | 16.41                 | 16.60                    | 16.49                  |                     |          |  |
| 15                             | 256QAM     | 36      | 0         | 16.63                 | 16.57                    | 16.53                  | 18                  | 0        |  |
| 15                             | 256QAM     | 36      | 20        | 16.33                 | 16.40                    | 16.53                  |                     |          |  |
| 15                             | 256QAM     | 36      | 39        | 16.29                 | 16.55                    | 16.41                  |                     |          |  |
| 15                             | 256QAM     | 75      | 0         | 16.27                 | 16.47                    | 16.28                  |                     |          |  |
| Channel                        |            |         |           | 37800                 | 38000                    | 38200                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 2575                  | 2595                     | 2615                   |                     |          |  |
| 10                             | QPSK       | 1       | 0         | 16.82                 | 16.79                    | 16.82                  | 18                  | 0        |  |
| 10                             | QPSK       | 1       | 25        | 16.53                 | 16.75                    | 16.74                  |                     |          |  |
| 10                             | QPSK       | 1       | 49        | 16.58                 | 16.65                    | 16.60                  |                     |          |  |
| 10                             | QPSK       | 25      | 0         | 16.60                 | 16.71                    | 16.61                  | 18                  | 0        |  |
| 10                             | QPSK       | 25      | 12        | 16.58                 | 16.56                    | 16.65                  |                     |          |  |
| 10                             | QPSK       | 25      | 25        | 16.43                 | 16.57                    | 16.54                  |                     |          |  |
| 10                             | QPSK       | 50      | 0         | 16.36                 | 16.54                    | 16.49                  | 18                  | 0        |  |
| 10                             | 16QAM      | 1       | 0         | 16.74                 | 16.79                    | 16.64                  |                     |          |  |
| 10                             | 16QAM      | 1       | 25        | 16.51                 | 16.61                    | 16.59                  |                     |          |  |
| 10                             | 16QAM      | 1       | 49        | 16.43                 | 16.62                    | 16.60                  | 18                  | 0        |  |
| 10                             | 16QAM      | 25      | 0         | 16.61                 | 16.55                    | 16.54                  |                     |          |  |
| 10                             | 16QAM      | 25      | 12        | 16.45                 | 16.43                    | 16.46                  |                     |          |  |
| 10                             | 16QAM      | 25      | 25        | 16.33                 | 16.49                    | 16.48                  | 18                  | 0        |  |
| 10                             | 16QAM      | 50      | 0         | 16.29                 | 16.47                    | 16.41                  |                     |          |  |
| 10                             | 64QAM      | 1       | 0         | 16.71                 | 16.68                    | 16.61                  |                     |          |  |
| 10                             | 64QAM      | 1       | 25        | 16.54                 | 16.60                    | 16.66                  | 18                  | 0        |  |
| 10                             | 64QAM      | 1       | 49        | 16.45                 | 16.57                    | 16.51                  |                     |          |  |
| 10                             | 64QAM      | 25      | 0         | 16.58                 | 16.47                    | 16.52                  |                     |          |  |
| 10                             | 64QAM      | 25      | 12        | 16.39                 | 16.56                    | 16.54                  | 18                  | 0        |  |
| 10                             | 64QAM      | 25      | 25        | 16.35                 | 16.40                    | 16.45                  |                     |          |  |
| 10                             | 64QAM      | 50      | 0         | 16.24                 | 16.39                    | 16.27                  |                     |          |  |
| 10                             | 256QAM     | 1       | 0         | 16.69                 | 16.74                    | 16.68                  | 18                  | 0        |  |
| 10                             | 256QAM     | 1       | 25        | 16.40                 | 16.64                    | 16.56                  |                     |          |  |
| 10                             | 256QAM     | 1       | 49        | 16.37                 | 16.59                    | 16.55                  |                     |          |  |
| 10                             | 256QAM     | 25      | 0         | 16.62                 | 16.63                    | 16.56                  | 18                  | 0        |  |
| 10                             | 256QAM     | 25      | 12        | 16.36                 | 16.40                    | 16.58                  |                     |          |  |
| 10                             | 256QAM     | 25      | 25        | 16.35                 | 16.57                    | 16.45                  |                     |          |  |
| 10                             | 256QAM     | 50      | 0         | 16.25                 | 16.49                    | 16.28                  |                     |          |  |
| Channel                        |            |         |           | 37775                 | 38000                    | 38225                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |          |  |
| 5                              | QPSK       | 1       | 0         | 16.78                 | 16.81                    | 16.78                  | 18                  | 0        |  |
| 5                              | QPSK       | 1       | 12        | 16.56                 | 16.69                    | 16.68                  |                     |          |  |
| 5                              | QPSK       | 1       | 24        | 16.50                 | 16.74                    | 16.69                  |                     |          |  |
| 5                              | QPSK       | 12      | 0         | 16.66                 | 16.64                    | 16.61                  | 18                  | 0        |  |
| 5                              | QPSK       | 12      | 7         | 16.56                 | 16.59                    | 16.63                  |                     |          |  |
| 5                              | QPSK       | 12      | 13        | 16.39                 | 16.52                    | 16.54                  |                     |          |  |
| 5                              | QPSK       | 25      | 0         | 16.39                 | 16.46                    | 16.42                  | 18                  | 0        |  |
| 5                              | 16QAM      | 1       | 0         | 16.78                 | 16.80                    | 16.62                  |                     |          |  |
| 5                              | 16QAM      | 1       | 12        | 16.52                 | 16.62                    | 16.51                  |                     |          |  |
| 5                              | 16QAM      | 1       | 24        | 16.35                 | 16.57                    | 16.55                  | 18                  | 0        |  |
| 5                              | 16QAM      | 12      | 0         | 16.59                 | 16.50                    | 16.52                  |                     |          |  |
| 5                              | 16QAM      | 12      | 7         | 16.52                 | 16.44                    | 16.52                  |                     |          |  |
| 5                              | 16QAM      | 12      | 13        | 16.29                 | 16.53                    | 16.43                  | 18                  | 0        |  |
| 5                              | 16QAM      | 25      | 0         | 16.24                 | 16.36                    | 16.39                  |                     |          |  |
| 5                              | 64QAM      | 1       | 0         | 16.67                 | 16.71                    | 16.63                  |                     |          |  |
| 5                              | 64QAM      | 1       | 12        | 16.53                 | 16.71                    | 16.62                  | 18                  | 0        |  |
| 5                              | 64QAM      | 1       | 24        | 16.35                 | 16.64                    | 16.59                  |                     |          |  |
| 5                              | 64QAM      | 12      | 0         | 16.62                 | 16.56                    | 16.57                  |                     |          |  |
| 5                              | 64QAM      | 12      | 7         | 16.42                 | 16.62                    | 16.58                  | 18                  | 0        |  |
| 5                              | 64QAM      | 12      | 13        | 16.34                 | 16.42                    | 16.50                  |                     |          |  |
| 5                              | 64QAM      | 25      | 0         | 16.21                 | 16.32                    | 16.30                  |                     |          |  |
| 5                              | 256QAM     | 1       | 0         | 16.61                 | 16.66                    | 16.65                  | 18                  | 0        |  |
| 5                              | 256QAM     | 1       | 12        | 16.48                 | 16.63                    | 16.50                  |                     |          |  |
| 5                              | 256QAM     | 1       | 24        | 16.46                 | 16.68                    | 16.49                  |                     |          |  |
| 5                              | 256QAM     | 12      | 0         | 16.55                 | 16.63                    | 16.53                  | 18                  | 0        |  |
| 5                              | 256QAM     | 12      | 7         | 16.34                 | 16.41                    | 16.49                  |                     |          |  |
| 5                              | 256QAM     | 12      | 13        | 16.27                 | 16.46                    | 16.43                  |                     |          |  |
| 5                              | 256QAM     | 25      | 0         | 16.27                 | 16.50                    | 16.27                  |                     |          |  |

### Reduced Power Mode for DSI6

| Band 2 Ant0 DSI6 |            |         |           |                     |                     |                      |                    |          |      |     |  |
|------------------|------------|---------|-----------|---------------------|---------------------|----------------------|--------------------|----------|------|-----|--|
| BW (MHz)         | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Med Ch./Freq. | Power High Ch./Freq. | Turn-up Init. (dB) | MPE (dB) |      |     |  |
| Channel          |            |         |           |                     |                     |                      |                    |          |      |     |  |
| Frequency (MHz)  |            |         |           |                     |                     |                      |                    |          |      |     |  |
| 20               | QPSK       | 1       | 0         | 20.12               | 20.24               | 20.21                |                    |          | 21.2 | 0   |  |
| 20               | QPSK       | 1       | 49        | 20.13               | 20.24               | 19.99                |                    |          |      |     |  |
| 20               | QPSK       | 1       | 99        | 20.09               | 20.05               | 20.20                |                    |          |      |     |  |
| 20               | QPSK       | 50      | 0         | 20.14               | 20.16               | 19.96                |                    |          |      |     |  |
| 20               | QPSK       | 24      | 0         | 20.14               | 19.98               | 19.97                |                    |          |      |     |  |
| 20               | QPSK       | 50      | 50        | 19.97               | 19.88               | 19.83                |                    |          | 21.2 | 0   |  |
| 20               | QPSK       | 100     | 0         | 20.07               | 20.09               | 19.98                |                    |          |      |     |  |
| 20               | HQAM       | 1       | 0         | 20.15               | 20.07               | 20.11                |                    |          |      |     |  |
| 20               | HQAM       | 1       | 49        | 20.09               | 20.10               | 20.05                |                    |          | 21.2 | 0   |  |
| 20               | HQAM       | 1       | 99        | 20.06               | 20.17               | 19.98                |                    |          |      |     |  |
| 20               | HQAM       | 50      | 0         | 19.99               | 20.08               | 20.09                |                    |          |      |     |  |
| 20               | HQAM       | 50      | 24        | 19.94               | 19.94               | 19.99                |                    |          | 21.2 | 0   |  |
| 20               | HQAM       | 50      | 50        | 19.98               | 19.93               | 19.99                |                    |          |      |     |  |
| 20               | HQAM       | 100     | 0         | 19.41               | 19.52               | 19.39                |                    |          |      |     |  |
| 20               | HQAM       | 1       | 0         | 17.41               | 17.46               | 17.43                |                    |          |      |     |  |
| 20               | HQAM       | 1       | 49        | 17.22               | 17.28               | 17.32                |                    |          | 19   | 2.2 |  |
| 20               | SSBQAM     | 1       | 99        | 17.16               | 17.35               | 17.28                |                    |          |      |     |  |
| 20               | SSBQAM     | 50      | 24        | 17.32               | 17.32               | 17.29                |                    |          |      |     |  |
| 20               | SSBQAM     | 50      | 24        | 17.15               | 17.20               | 17.21                |                    |          | 19   | 2.2 |  |
| 20               | SSBQAM     | 50      | 50        | 17.11               | 17.19               | 17.21                |                    |          |      |     |  |
| 20               | SSBQAM     | 100     | 0         | 17.17               | 17.23               | 17.18                |                    |          |      |     |  |
| Channel          |            |         |           |                     |                     |                      |                    |          |      |     |  |
| Frequency (MHz)  |            |         |           |                     |                     |                      |                    |          |      |     |  |
| 15               | QPSK       | 1       | 0         | 18.07               | 18.00               | 18.03                |                    |          | 21.2 | 0   |  |
| 15               | QPSK       | 1       | 37        | 20.08               | 20.21               | 20.18                |                    |          |      |     |  |
| 15               | QPSK       | 1       | 99        | 19.98               | 20.08               | 19.99                |                    |          |      |     |  |
| 15               | QPSK       | 1       | 74        | 20.03               | 20.09               | 20.16                |                    |          |      |     |  |
| 15               | QPSK       | 96      | 0         | 20.11               | 20.08               | 19.92                |                    |          | 21.2 | 0   |  |
| 15               | QPSK       | 25      | 0         | 20.00               | 19.98               | 19.99                |                    |          |      |     |  |
| 15               | QPSK       | 36      | 36        | 19.89               | 19.84               | 19.74                |                    |          |      |     |  |
| 15               | QPSK       | 75      | 0         | 20.14               | 20.04               | 19.97                |                    |          |      |     |  |
| 15               | HQAM       | 1       | 0         | 20.14               | 20.02               | 20.16                |                    |          |      |     |  |
| 15               | HQAM       | 1       | 37        | 20.00               | 20.08               | 20.01                |                    |          | 21.2 | 0   |  |
| 15               | HQAM       | 1       | 49        | 19.91               | 19.97               | 19.94                |                    |          |      |     |  |
| 15               | HQAM       | 36      | 0         | 19.92               | 19.93               | 19.99                |                    |          |      |     |  |
| 15               | HQAM       | 36      | 20        | 19.81               | 19.87               | 19.87                |                    |          | 21.2 | 0   |  |
| 15               | HQAM       | 36      | 39        | 19.77               | 19.79               | 19.79                |                    |          |      |     |  |
| 15               | HQAM       | 75      | 0         | 19.83               | 19.74               | 19.77                |                    |          |      |     |  |
| 15               | HQAM       | 1       | 0         | 19.91               | 19.89               | 19.86                |                    |          |      |     |  |
| 15               | HQAM       | 37      | 37        | 19.74               | 19.86               | 19.79                |                    |          | 21.2 | 0   |  |
| 15               | HQAM       | 1       | 49        | 19.77               | 19.88               | 19.75                |                    |          |      |     |  |
| 15               | HQAM       | 25      | 0         | 19.21               | 19.37               | 19.30                |                    |          |      |     |  |
| 15               | HQAM       | 25      | 12        | 19.11               | 19.26               | 19.25                |                    |          | 21   | 0.2 |  |
| 15               | HQAM       | 25      | 25        | 19.21               | 19.24               | 19.16                |                    |          |      |     |  |
| 15               | HQAM       | 50      | 0         | 19.32               | 19.41               | 19.30                |                    |          |      |     |  |
| 15               | HQAM       | 1       | 0         | 17.36               | 17.38               | 17.39                |                    |          |      |     |  |
| 15               | SSBQAM     | 1       | 25        | 17.14               | 17.16               | 17.16                |                    |          | 19   | 2.2 |  |
| 15               | SSBQAM     | 1       | 49        | 17.11               | 17.21               | 17.13                |                    |          |      |     |  |
| 15               | SSBQAM     | 50      | 24        | 17.22               | 17.26               | 17.25                |                    |          |      |     |  |
| 15               | SSBQAM     | 25      | 12        | 17.07               | 17.08               | 17.16                |                    |          | 19   | 2.2 |  |
| 15               | SSBQAM     | 25      | 25        | 17.09               | 17.08               | 17.06                |                    |          |      |     |  |
| 15               | SSBQAM     | 50      | 0         | 17.11               | 17.17               | 17.09                |                    |          |      |     |  |
| Channel          |            |         |           |                     |                     |                      |                    |          |      |     |  |
| Frequency (MHz)  |            |         |           |                     |                     |                      |                    |          |      |     |  |
| 10               | QPSK       | 1       | 0         | 20.09               | 20.08               | 20.12                |                    |          | 21.2 | 0   |  |
| 10               | QPSK       | 1       | 25        | 20.00               | 19.98               | 19.97                |                    |          |      |     |  |
| 10               | QPSK       | 1       | 49        | 20.07               | 20.08               | 20.11                |                    |          |      |     |  |
| 10               | QPSK       | 1       | 99        | 20.06               | 19.97               | 19.99                |                    |          |      |     |  |
| 10               | QPSK       | 25      | 12        | 19.92               | 19.98               | 19.99                |                    |          | 21.2 | 0   |  |
| 10               | QPSK       | 25      | 25        | 19.86               | 19.87               | 19.79                |                    |          |      |     |  |
| 10               | QPSK       | 50      | 0         | 19.91               | 19.98               | 19.99                |                    |          |      |     |  |
| 10               | HQAM       | 1       | 0         | 20.09               | 20.12               | 20.15                |                    |          | 21.2 | 0   |  |
| 10               | HQAM       | 1       | 25        | 20.04               | 20.12               | 20.07                |                    |          |      |     |  |
| 10               | HQAM       | 1       | 49        | 19.91               | 19.97               | 19.94                |                    |          |      |     |  |
| 10               | HQAM       | 25      | 12        | 19.77               | 19.80               | 19.79                |                    |          | 21.2 | 0   |  |
| 10               | HQAM       | 25      | 25        | 19.81               | 19.81               | 19.82                |                    |          |      |     |  |
| 10               | HQAM       | 50      | 0         | 19.88               | 19.79               | 19.78                |                    |          |      |     |  |
| 10               | HQAM       | 1       | 0         | 19.91               | 19.91               | 19.92                |                    |          | 21.2 | 0   |  |
| 10               | HQAM       | 1       | 25        | 19.71               | 19.87               | 19.83                |                    |          |      |     |  |
| 10               | HQAM       | 1       | 49        | 19.77               | 19.88               | 19.75                |                    |          |      |     |  |
| 10               | HQAM       | 25      | 0         | 19.21               | 19.37               | 19.30                |                    |          |      |     |  |
| 10               | HQAM       | 25      | 12        | 19.11               | 19.26               | 19.25                |                    |          | 21   | 0.2 |  |
| 10               | HQAM       | 25      | 25        | 19.21               | 19.24               | 19.16                |                    |          |      |     |  |
| 10               | HQAM       | 50      | 0         | 19.32               | 19.41               | 19.30                |                    |          |      |     |  |
| 10               | SSBQAM     | 1       | 25        | 17.36               | 17.38               | 17.39                |                    |          |      |     |  |
| 10               | SSBQAM     | 1       | 25        | 17.14               | 17.16               | 17.16                |                    |          | 19   | 2.2 |  |
| 10               | SSBQAM     | 1       | 49        | 17.11               | 17.21               | 17.13                |                    |          |      |     |  |
| 10               | SSBQAM     | 50      | 24        | 17.22               | 17.26               | 17.25                |                    |          |      |     |  |
| 10               | SSBQAM     | 25      | 12        | 17.07               | 17.08               | 17.16                |                    |          | 19   | 2.2 |  |
| 10               | SSBQAM     | 25      | 25        | 17.09               | 17.08               | 17.06                |                    |          |      |     |  |
| 10               | SSBQAM     | 50      | 0         | 17.11               | 17.17               | 17.09                |                    |          |      |     |  |
| Channel          |            |         |           |                     |                     |                      |                    |          |      |     |  |
| Frequency (MHz)  |            |         |           |                     |                     |                      |                    |          |      |     |  |
| 5                | QPSK       | 1       | 0         | 20.11               | 20.12               | 20.13                |                    |          | 21.2 | 0   |  |
| 5                | QPSK       | 1       | 12        | 20.09               | 19.98               | 19.99                |                    |          |      |     |  |
| 5                | QPSK       | 1       | 24        | 20.10               | 20.07               | 20.12                |                    |          |      |     |  |
| 5                | QPSK       | 12      | 0         | 20.13               | 20.07               | 19.99                |                    |          |      |     |  |
| 5                | QPSK       | 12      | 7         | 19.93               | 19.99               | 19.97                |                    |          | 21.2 | 0   |  |
| 5                | QPSK       | 12      | 13        | 19.94               | 19.83               | 19.75                |                    |          |      |     |  |
| 5                | QPSK       | 25      | 0         | 19.92               | 19.87               | 19.88                |                    |          |      |     |  |
| 5                | HQAM       | 1       | 0         | 20.10               | 20.13               | 20.12                |                    |          | 21.2 | 0   |  |
| 5                | HQAM       | 1       | 12        | 20.05               | 20.03               | 19.98                |                    |          |      |     |  |
| 5                | HQAM       | 1       | 24        | 20.06               | 20.12               | 19.99                |                    |          |      |     |  |
| 5                | HQAM       | 12      | 0         | 19.89               | 20.00               | 20.06                |                    |          |      |     |  |
| 5                | HQAM       | 12      | 7         | 19.76               | 19.94               | 19.77                |                    |          | 21.2 | 0   |  |
| 5                | HQAM       | 12      | 13        | 19.87               | 19.96               | 19.91                |                    |          |      |     |  |
| 5                | HQAM       | 25      | 0         | 19.85               | 19.84               | 19.86                |                    |          |      |     |  |
| 5                | HQAM       | 1       | 0         | 19.93               | 19.99               | 19.98                |                    |          | 21.2 | 0   |  |
| 5                | HQAM       | 1       | 12        | 19.86               | 19.85               | 19.87                |                    |          |      |     |  |
| 5                | HQAM       | 1       | 24        | 19.80               | 19.88               | 19.75                |                    |          |      |     |  |
| 5                | HQAM       | 12      | 0         | 19.26               | 19.30               | 19.24                |                    |          |      |     |  |
| 5                | HQAM       | 12      | 7         | 19.09               | 19.15               | 19.14                |                    |          | 21   | 0.2 |  |
| 5                | HQAM       | 12      | 13        | 19.17               | 19.23               | 19.17                |                    |          |      |     |  |
| 5                | HQAM       | 25      | 0         | 19.26               | 19.48               | 19.34                |                    |          |      |     |  |
| 5                | SSBQAM     | 1       | 0         | 17.31               | 17.39               | 17.34                |                    |          |      |     |  |
| 5                | SSBQAM     | 1       | 12        | 17.09               | 17.16               | 17.25                |                    |          | 19   | 2.2 |  |
| 5                | SSBQAM     | 1       | 24        | 17.11               | 17.23               | 17.16                |                    |          |      |     |  |
| 5                | SSBQAM     | 12      | 0         | 17.25               | 17.18               | 17.17                |                    |          |      |     |  |
| 5                | SSBQAM     | 12      | 7         | 17.00               | 17.05               | 17.09                |                    |          | 19   | 2.2 |  |
| 5                | SSBQAM     | 12      | 13        | 17.01               | 17.09               | 17.15                |                    |          |      |     |  |
| 5                | SSBQAM     | 25      | 0         | 17.02               | 17.18               | 17.05                |                    |          |      |     |  |
| Channel          |            |         |           |                     |                     |                      |                    |          |      |     |  |
| Frequency (MHz)  |            |         |           |                     |                     |                      |                    |          |      |     |  |
| 3                | QPSK       | 1       | 0         | 20.13               | 20.23               | 20.11                |                    |          |      |     |  |
| 3                | QPSK       | 1       | 8         | 20.02               | 20.06               | 19.89                |                    |          | 21.2 | 0   |  |
| 3                | QPSK       | 1       | 14        | 20.04               | 20.07               | 20.08                |                    |          |      |     |  |
| 3                | QPSK       | 8       | 0         | 20.08               | 20.08               | 19.97                |                    |          |      |     |  |
| 3                | QPSK       | 8       | 4         | 19.93               | 19.94               | 19.87                |                    |          | 21.2 | 0   |  |
| 3                | QPSK       | 8       | 7         | 19.86               | 19.89               | 19.75                |                    |          |      |     |  |
| 3                | QPSK       | 16      | 0         | 20.01               | 20.03               | 19.91                |                    |          |      |     |  |
| 3                | HQAM       | 1       | 0         | 20.05               | 20.06               | 20.11                |                    |          | 21.2 | 0   |  |
| 3                | HQAM       | 1       | 8         | 20.02               | 20.09               | 19.97                |                    |          |      |     |  |
| 3                | HQAM       | 1       | 14        | 19.99               | 20.13               | 19.91                |                    |          |      |     |  |
| 3                | HQAM       | 8       | 0         | 19.90               | 19.90               | 19.90                |                    |          | 21.2 | 0   |  |
| 3                | HQAM       | 8       | 4         | 19.85               | 19.85               | 19.83                |                    |          |      |     |  |
| 3                | HQAM       | 8       | 7         | 19.87               | 19.87               | 19.84                |                    |          |      |     |  |
| 3                | HQAM       | 16      | 0         | 19.85               | 19.76               | 19.75                |                    |          |      |     |  |
| 3                | HQAM       | 1       | 0         | 19.86               | 19.86               | 19.93                |                    |          | 21.2 | 0   |  |
| 3                | HQAM       | 1       | 8         | 19.72               | 19.92               | 19.88                |                    |          |      |     |  |
| 3                | HQAM       | 1       | 14        | 19.84               | 19.88               | 19.74                |                    |          |      |     |  |
| 3                | HQAM       | 8       | 0         | 19.13               | 19.19               | 19.32                |                    |          | 21   | 0.2 |  |
| 3                | HQAM       | 8       | 7         | 19.13               | 19.26               | 19.20                |                    |          |      |     |  |
| 3                | HQAM       | 16      | 0         | 17.34               | 17.32               | 17.33                |                    |          |      |     |  |
| 3                | SSBQAM     | 1       | 8         | 17.14               | 17.14               | 17.21                |                    |          |      |     |  |
| 3                | SSBQAM     | 1       | 14        | 17.04               | 17.29               | 17.15                |                    |          | 19   | 2.2 |  |
| 3                | SSBQAM     | 1       | 14        | 17.06               | 17.28               | 17.21                |                    |          |      |     |  |
| 3                | SSBQAM     | 8       | 0         | 17.02               | 17.12               | 17.05                |                    |          | 19   | 2.2 |  |
| 3                | SSBQAM     | 8       | 7         | 17.09               | 17.12               | 17.08                |                    |          |      |     |  |
| 3                | SSBQAM     | 16      | 0         | 17.14               | 17.05               | 17.05                |                    |          |      |     |  |
| Channel          |            |         |           |                     |                     |                      |                    |          |      |     |  |
| Frequency (MHz)  |            |         |           |                     |                     |                      |                    |          |      |     |  |
| 1.4              | QPSK       | 1       | 0         | 18.07               | 18.00               | 18.03                |                    |          | 21.2 | 0   |  |
| 1.4              | QPSK       | 1       | 37        | 20.08               | 20.21               | 20.18                |                    |          |      |     |  |
| 1.4              | QPSK       | 1       | 99        | 19.98               | 20.08               | 19.99                |                    |          |      |     |  |
| 1.4              | QPSK       | 1       | 74        | 20.03               | 20.09               | 20.16                |                    |          |      |     |  |
| 1.4              | QPSK       | 1       | 5         | 20.04               | 20.08               | 20.14                |                    |          | 21   | 0   |  |
| 1.4              | QPSK       | 1       | 11        | 20.05               | 20.06               | 20.09                |                    |          |      |     |  |
| 1.4              | QPSK       | 3       | 3         | 19.98               | 19.99               | 19.95                |                    |          |      |     |  |
| 1.4              | QPSK       | 3       | 3         | 19.99               | 19.83               | 19.78                |                    |          |      |     |  |
| 1.4              | QPSK       | 3       | 3         | 19.93               | 19.93               | 19.96                |                    |          | 21.2 | 0   |  |
| 1.4              | HQAM       | 1       | 0         | 20.05               | 20.11               | 20.09                |                    |          |      |     |  |
| 1.4              | HQAM       | 1       | 3         | 20.06               | 20.03               | 19.96                |                    |          |      |     |  |
| 1.4              | HQAM       | 3       | 3         | 19.94               | 19.94               | 19.95                |                    |          | 21.2 | 0   |  |
| 1.4              | HQAM       | 3       | 3         | 19.88               | 19.93               | 19.95                |                    |          |      |     |  |
| 1.4              | HQAM       | 3       | 3         | 19.82               | 19.88               | 19.78                |                    |          |      |     |  |

| Band 2n Ant0 D516 |            |          |            |                        |       |                        |       |                   |          |  |
|-------------------|------------|----------|------------|------------------------|-------|------------------------|-------|-------------------|----------|--|
| BW (MHz)          | Modulation | RBs Size | RBs Offset | Power Spectral Density |       | Power Spectral Density |       | Turn-on time (dB) | MFR (dB) |  |
|                   |            |          |            | Ch. 1                  | Ch. 2 | Ch. 1                  | Ch. 2 |                   |          |  |
| Channel 1         |            |          |            |                        |       |                        |       |                   |          |  |
| Frequency (MHz)   |            |          |            | 23060                  | 23095 | 23130                  |       |                   |          |  |
| 10                | OFDM       | 1        | 0          | 22.87                  | 22.08 | 22.08                  |       |                   |          |  |
| 10                | OFDM       | 1        | 26         | 22.87                  | 22.08 | 22.08                  |       |                   |          |  |
| 10                | OFDM       | 25       | 0          | 22.84                  | 22.08 | 22.08                  |       | 24                | 0        |  |
| 10                | OFDM       | 25       | 0          | 21.63                  | 21.79 | 21.65                  |       |                   |          |  |
| 10                | OFDM       | 25       | 12         | 21.41                  | 21.47 | 21.73                  |       |                   |          |  |
| 10                | OFDM       | 25       | 12         | 21.48                  | 21.48 | 21.73                  |       | 23                | 1        |  |
| 10                | OFDM       | 50       | 0          | 21.53                  | 21.55 | 21.50                  |       |                   |          |  |
| 10                | OFDM       | 1        | 0          | 21.89                  | 21.85 | 21.73                  |       |                   |          |  |
| 10                | OFDM       | 1        | 26         | 21.70                  | 21.70 | 21.71                  |       | 23                | 1        |  |
| 10                | OFDM       | 1        | 49         | 21.82                  | 21.78 | 21.69                  |       |                   |          |  |
| 10                | OFDM       | 25       | 0          | 20.80                  | 20.65 | 20.73                  |       |                   |          |  |
| 10                | OFDM       | 25       | 0          | 20.80                  | 20.65 | 20.73                  |       |                   |          |  |
| 10                | OFDM       | 25       | 26         | 20.74                  | 20.79 | 20.84                  |       | 22                | 2        |  |
| 10                | OFDM       | 50       | 0          | 20.54                  | 20.68 | 20.63                  |       |                   |          |  |
| 10                | OFDM       | 25       | 0          | 20.54                  | 20.68 | 20.63                  |       |                   |          |  |
| 10                | OFDM       | 1        | 26         | 20.57                  | 20.67 | 20.54                  |       | 22                | 2        |  |
| 10                | OFDM       | 1        | 49         | 20.62                  | 20.59 | 20.68                  |       |                   |          |  |
| 10                | OFDM       | 25       | 12         | 19.82                  | 19.83 | 19.88                  |       |                   |          |  |
| 10                | OFDM       | 25       | 12         | 19.82                  | 19.83 | 19.88                  |       | 21                | 3        |  |
| 10                | OFDM       | 25       | 25         | 19.58                  | 19.68 | 19.45                  |       |                   |          |  |
| 10                | OFDM       | 25       | 25         | 19.58                  | 19.68 | 19.45                  |       |                   |          |  |
| 10                | 25QAM      | 1        | 0          | 17.69                  | 17.77 | 17.58                  |       |                   |          |  |
| 10                | 25QAM      | 1        | 26         | 17.69                  | 17.77 | 17.58                  |       | 19                | 5        |  |
| 10                | 25QAM      | 1        | 49         | 17.69                  | 17.77 | 17.58                  |       |                   |          |  |
| 10                | 25QAM      | 25       | 0          | 17.55                  | 17.71 | 17.62                  |       |                   |          |  |
| 10                | 25QAM      | 25       | 12         | 17.55                  | 17.69 | 17.59                  |       | 19                | 5        |  |
| 10                | 25QAM      | 25       | 12         | 17.79                  | 17.79 | 17.79                  |       |                   |          |  |
| 10                | 25QAM      | 50       | 0          | 17.65                  | 17.52 | 17.41                  |       |                   |          |  |
| Channel 2         |            |          |            |                        |       |                        |       |                   |          |  |
| Frequency (MHz)   |            |          |            | 23065                  | 23095 | 23155                  |       |                   |          |  |
| 5                 | OFDM       | 1        | 0          | 22.87                  | 22.08 | 22.08                  |       |                   |          |  |
| 5                 | OFDM       | 1        | 12         | 22.80                  | 22.08 | 22.41                  |       |                   |          |  |
| 5                 | OFDM       | 25       | 0          | 22.54                  | 22.08 | 22.43                  |       | 24                | 0        |  |
| 5                 | OFDM       | 12       | 0          | 21.51                  | 21.68 | 21.65                  |       |                   |          |  |
| 5                 | OFDM       | 12       | 7          | 21.34                  | 21.42 | 21.61                  |       |                   |          |  |
| 5                 | OFDM       | 25       | 0          | 21.53                  | 21.53 | 21.53                  |       |                   |          |  |
| 5                 | OFDM       | 25       | 0          | 21.46                  | 21.37 | 21.24                  |       |                   |          |  |
| 5                 | OFDM       | 1        | 0          | 21.55                  | 21.71 | 21.69                  |       |                   |          |  |
| 5                 | OFDM       | 1        | 26         | 21.46                  | 21.61 | 21.67                  |       |                   |          |  |
| 5                 | OFDM       | 1        | 24         | 21.54                  | 21.60 | 21.55                  |       |                   |          |  |
| 5                 | OFDM       | 12       | 0          | 20.76                  | 20.59 | 20.83                  |       |                   |          |  |
| 5                 | OFDM       | 12       | 0          | 20.76                  | 20.59 | 20.83                  |       |                   |          |  |
| 5                 | OFDM       | 12       | 19         | 20.70                  | 20.62 | 20.62                  |       | 22                | 2        |  |
| 5                 | OFDM       | 25       | 0          | 20.40                  | 20.63 | 20.59                  |       |                   |          |  |
| 5                 | OFDM       | 25       | 0          | 20.40                  | 20.63 | 20.59                  |       |                   |          |  |
| 5                 | OFDM       | 1        | 12         | 20.40                  | 20.60 | 20.20                  |       | 22                | 2        |  |
| 5                 | OFDM       | 1        | 24         | 20.59                  | 20.58 | 20.59                  |       |                   |          |  |
| 5                 | OFDM       | 12       | 7          | 19.48                  | 19.35 | 19.25                  |       |                   |          |  |
| 5                 | OFDM       | 12       | 13         | 19.51                  | 19.64 | 19.38                  |       |                   |          |  |
| 5                 | OFDM       | 12       | 13         | 19.45                  | 19.45 | 19.35                  |       |                   |          |  |
| 5                 | 25QAM      | 1        | 0          | 17.62                  | 17.60 | 17.61                  |       |                   |          |  |
| 5                 | 25QAM      | 1        | 12         | 17.63                  | 17.74 | 17.52                  |       |                   |          |  |
| 5                 | 25QAM      | 1        | 12         | 17.63                  | 17.74 | 17.52                  |       |                   |          |  |
| 5                 | 25QAM      | 25       | 0          | 17.50                  | 17.49 | 17.27                  |       | 19                | 5        |  |
| 5                 | 25QAM      | 25       | 0          | 17.50                  | 17.49 | 17.27                  |       |                   |          |  |
| Channel 3         |            |          |            |                        |       |                        |       |                   |          |  |
| Frequency (MHz)   |            |          |            | 23070                  | 23095 | 23175                  |       |                   |          |  |
| 3                 | OFDM       | 1        | 0          | 22.93                  | 22.94 | 22.95                  |       |                   |          |  |
| 3                 | OFDM       | 1        | 8          | 22.39                  | 22.93 | 22.42                  |       |                   |          |  |
| 3                 | OFDM       | 1        | 16         | 22.37                  | 22.93 | 22.40                  |       |                   |          |  |
| 3                 | OFDM       | 25       | 0          | 21.49                  | 21.68 | 21.48                  |       | 24                | 0        |  |
| 3                 | OFDM       | 8        | 0          | 21.29                  | 21.39 | 21.47                  |       |                   |          |  |
| 3                 | OFDM       | 8        | 8          | 21.29                  | 21.45 | 21.67                  |       | 23                | 1        |  |
| 3                 | OFDM       | 15       | 0          | 21.48                  | 21.48 | 21.52                  |       |                   |          |  |
| 3                 | OFDM       | 1        | 0          | 21.56                  | 21.69 | 21.68                  |       |                   |          |  |
| 3                 | OFDM       | 1        | 16         | 21.71                  | 21.69 | 21.68                  |       | 23                | 1        |  |
| 3                 | OFDM       | 1        | 14         | 21.64                  | 21.60 | 21.54                  |       |                   |          |  |
| 3                 | OFDM       | 8        | 0          | 20.73                  | 20.54 | 20.58                  |       |                   |          |  |
| 3                 | OFDM       | 8        | 8          | 20.73                  | 20.54 | 20.58                  |       |                   |          |  |
| 3                 | OFDM       | 8        | 7          | 20.63                  | 20.71 | 20.53                  |       | 22                | 2        |  |
| 3                 | OFDM       | 15       | 0          | 20.40                  | 20.58 | 20.45                  |       |                   |          |  |
| 3                 | OFDM       | 15       | 0          | 20.40                  | 20.58 | 20.45                  |       |                   |          |  |
| 3                 | OFDM       | 1        | 8          | 20.51                  | 20.55 | 20.50                  |       | 22                | 2        |  |
| 3                 | OFDM       | 1        | 14         | 20.45                  | 20.44 | 20.54                  |       |                   |          |  |
| 3                 | OFDM       | 8        | 0          | 19.46                  | 19.46 | 19.35                  |       | 21                | 3        |  |
| 3                 | OFDM       | 8        | 8          | 19.46                  | 19.45 | 19.35                  |       |                   |          |  |
| 3                 | OFDM       | 8        | 7          | 19.55                  | 19.52 | 19.29                  |       |                   |          |  |
| 3                 | OFDM       | 15       | 0          | 19.36                  | 19.36 | 19.29                  |       |                   |          |  |
| 3                 | OFDM       | 1        | 0          | 17.65                  | 17.66 | 17.60                  |       |                   |          |  |
| 3                 | 25QAM      | 1        | 8          | 17.63                  | 17.63 | 17.54                  |       |                   |          |  |
| 3                 | 25QAM      | 1        | 14         | 17.61                  | 17.61 | 17.58                  |       |                   |          |  |
| 3                 | 25QAM      | 8        | 0          | 17.45                  | 17.53 | 17.60                  |       |                   |          |  |
| 3                 | 25QAM      | 8        | 4          | 17.56                  | 17.68 | 17.47                  |       | 19                | 5        |  |
| 3                 | 25QAM      | 15       | 0          | 17.51                  | 17.38 | 17.28                  |       |                   |          |  |
| Channel 4         |            |          |            |                        |       |                        |       |                   |          |  |
| Frequency (MHz)   |            |          |            | 23074                  | 23095 | 23214                  |       |                   |          |  |
| 1.4               | OFDM       | 1        | 0          | 22.94                  | 22.49 | 22.74                  |       |                   |          |  |
| 1.4               | OFDM       | 1        | 3          | 22.39                  | 22.48 | 22.53                  |       |                   |          |  |
| 1.4               | OFDM       | 1        | 5          | 22.39                  | 22.52 | 22.59                  |       | 24                | 0        |  |
| 1.4               | OFDM       | 25       | 0          | 22.35                  | 22.43 | 22.48                  |       |                   |          |  |
| 1.4               | OFDM       | 1        | 1          | 22.38                  | 22.35 | 22.37                  |       |                   |          |  |
| 1.4               | OFDM       | 3        | 3          | 22.34                  | 22.48 | 22.39                  |       | 23                | 1        |  |
| 1.4               | OFDM       | 1        | 1          | 22.47                  | 22.70 | 22.15                  |       | 23                | 1        |  |
| 1.4               | OFDM       | 1        | 0          | 21.44                  | 21.51 | 21.61                  |       |                   |          |  |
| 1.4               | OFDM       | 1        | 3          | 21.37                  | 21.59 | 21.33                  |       |                   |          |  |
| 1.4               | OFDM       | 1        | 5          | 21.36                  | 21.53 | 21.32                  |       |                   |          |  |
| 1.4               | OFDM       | 3        | 1          | 21.41                  | 21.62 | 21.40                  |       | 23                | 1        |  |
| 1.4               | OFDM       | 3        | 1          | 21.30                  | 21.54 | 21.21                  |       |                   |          |  |
| 1.4               | OFDM       | 1        | 0          | 21.44                  | 21.47 | 21.48                  |       |                   |          |  |
| 1.4               | OFDM       | 1        | 0          | 20.45                  | 20.42 | 20.34                  |       | 22                | 2        |  |
| 1.4               | OFDM       | 1        | 0          | 20.45                  | 20.42 | 20.34                  |       |                   |          |  |
| 1.4               | OFDM       | 1        | 0          | 19.46                  | 19.39 | 19.35                  |       |                   |          |  |
| 1.4               | OFDM       | 1        | 0          | 19.46                  | 19.39 | 19.35                  |       |                   |          |  |
| 1.4               | OFDM       | 3        | 3          | 19.56                  | 19.40 | 19.45                  |       | 21                | 3        |  |
| 1.4               | OFDM       | 6        | 0          | 19.40                  | 19.40 | 19.35                  |       |                   |          |  |
| 1.4               | 25QAM      | 1        | 0          | 17.40                  | 17.46 | 17.44                  |       |                   |          |  |
| 1.4               | 25QAM      | 1        | 3          | 17.27                  | 17.60 | 17.30                  |       |                   |          |  |
| 1.4               | 25QAM      | 1        | 5          | 17.27                  | 17.43 | 17.29                  |       |                   |          |  |
| 1.4               | 25QAM      | 3        | 3          | 17.28                  | 17.44 | 17.43                  |       | 19                | 5        |  |
| 1.4               | 25QAM      | 1        | 1          | 17.25                  | 17.28 | 17.31                  |       |                   |          |  |
| 1.4               | 25QAM      | 1        | 3          | 17.15                  | 17.15 | 17.15                  |       |                   |          |  |
| 1.4               | 25QAM      | 6        | 0          | 17.44                  | 17.21 | 17.25                  |       | 19                | 5        |  |

| Band 13 Ant0 DS16 |            |      |           |                       |                       |                       |                 |             |  |
|-------------------|------------|------|-----------|-----------------------|-----------------------|-----------------------|-----------------|-------------|--|
| RF MHz            | Modulation | RB W | RB Offset | Power /<br>CRF /Fires | Power /<br>CRF /Fires | Power /<br>CRF /Fires | Turn-up<br>(dB) | MFR<br>(dB) |  |
| Channel 23020     |            |      |           |                       |                       |                       |                 |             |  |
| 10                | Frequency  | 1    | 0         |                       | 22.38                 |                       |                 |             |  |
| 10                | OPSR       | 1    | 26        |                       | 22.34                 |                       | 24              | 0           |  |
| 10                | OPSR       | 1    | 26        |                       | 21.28                 |                       |                 |             |  |
| 10                | OPSR       | 25   | 0         |                       | 21.34                 |                       |                 |             |  |
| 10                | OPSR       | 26   | 12        |                       | 21.48                 |                       |                 |             |  |
| 10                | ISQAM      | 1    | 0         |                       | 21.41                 |                       | 23              | 1           |  |
| 10                | OPSR       | 50   | 0         |                       | 21.38                 |                       |                 |             |  |
| 10                | ISQAM      | 1    | 0         |                       | 21.78                 |                       |                 |             |  |
| 10                | ISQAM      | 1    | 26        |                       | 21.66                 |                       | 23              | 1           |  |
| 10                | ISQAM      | 1    | 49        |                       | 21.59                 |                       |                 |             |  |
| 10                | ISQAM      | 25   | 0         |                       | 20.67                 |                       |                 |             |  |
| 10                | ISQAM      | 25   | 12        |                       | 20.68                 |                       | 22              | 2           |  |
| 10                | ISQAM      | 25   | 26        |                       | 20.45                 |                       |                 |             |  |
| 10                | ISQAM      | 50   | 0         |                       | 20.38                 |                       |                 |             |  |
| 10                | ISQAM      | 50   | 12        |                       | 20.38                 |                       |                 |             |  |
| 10                | ISQAM      | 1    | 26        |                       | 20.02                 |                       | 22              | 2           |  |
| 10                | ISQAM      | 1    | 49        |                       | 20.07                 |                       |                 |             |  |
| 10                | ISQAM      | 1    | 72        |                       | 19.92                 |                       |                 |             |  |
| 10                | ISQAM      | 25   | 12        |                       | 19.54                 |                       |                 |             |  |
| 10                | ISQAM      | 25   | 26        |                       | 19.63                 |                       |                 |             |  |
| 10                | ISQAM      | 25   | 49        |                       | 19.41                 |                       |                 |             |  |
| 10                | 250KAM     | 1    | 0         |                       | 17.55                 |                       |                 |             |  |
| 10                | 250KAM     | 1    | 26        |                       | 17.49                 |                       | 19              | 5           |  |
| 10                | 250KAM     | 1    | 49        |                       | 17.46                 |                       |                 |             |  |
| 10                | 250KAM     | 25   | 0         |                       | 17.45                 |                       |                 |             |  |
| 10                | 250KAM     | 25   | 12        |                       | 17.43                 |                       |                 |             |  |
| 10                | 250KAM     | 25   | 26        |                       | 17.38                 |                       | 19              | 5           |  |
| 10                | 250KAM     | 50   | 0         |                       | 17.41                 |                       |                 |             |  |
| Channel 23025     |            |      |           |                       |                       |                       |                 |             |  |
| 5                 | Frequency  | 1    | 0         |                       | 22.05                 | 22.05                 | Turn-up<br>(dB) | MFR<br>(dB) |  |
| 5                 | OPSR       | 1    | 0         |                       | 22.24                 | 22.20                 | 25              | 20          |  |
| 5                 | OPSR       | 1    | 12        |                       | 22.22                 | 22.26                 |                 |             |  |
| 5                 | OPSR       | 1    | 24        |                       | 22.08                 | 22.19                 | 22.02           |             |  |
| 5                 | OPSR       | 1    | 36        |                       | 21.28                 | 21.48                 | 21.38           |             |  |
| 5                 | OPSR       | 12   | 7         |                       | 21.30                 | 21.41                 | 21.28           |             |  |
| 5                 | OPSR       | 12   | 19        |                       | 21.26                 | 21.37                 | 21.23           |             |  |
| 5                 | OPSR       | 12   | 31        |                       | 21.13                 | 21.20                 | 21.14           |             |  |
| 5                 | ISQAM      | 1    | 0         |                       | 21.67                 | 21.72                 | 21.68           |             |  |
| 5                 | ISQAM      | 1    | 12        |                       | 21.36                 | 21.49                 | 21.58           |             |  |
| 5                 | ISQAM      | 1    | 24        |                       | 21.28                 | 21.41                 | 21.45           |             |  |
| 5                 | ISQAM      | 12   | 0         |                       | 20.44                 | 20.51                 | 20.49           |             |  |
| 5                 | ISQAM      | 12   | 12        |                       | 20.31                 | 20.36                 | 20.35           |             |  |
| 5                 | ISQAM      | 12   | 24        |                       | 20.20                 | 20.38                 | 20.20           |             |  |
| 5                 | ISQAM      | 25   | 0         |                       | 20.16                 | 20.24                 | 20.19           |             |  |
| 5                 | ISQAM      | 25   | 12        |                       | 20.08                 | 20.31                 | 20.07           |             |  |
| 5                 | ISQAM      | 1    | 12        |                       | 20.44                 | 20.41                 | 20.43           |             |  |
| 5                 | ISQAM      | 1    | 24        |                       | 20.39                 | 20.48                 | 20.43           |             |  |
| 5                 | ISQAM      | 12   | 0         |                       | 19.48                 | 19.53                 | 19.50           |             |  |
| 5                 | ISQAM      | 12   | 12        |                       | 19.40                 | 19.51                 | 19.35           |             |  |
| 5                 | ISQAM      | 12   | 19        |                       | 19.22                 | 19.38                 | 19.26           |             |  |
| 5                 | ISQAM      | 25   | 0         |                       | 19.22                 | 19.45                 | 19.19           |             |  |
| 5                 | ISQAM      | 25   | 12        |                       | 19.18                 | 19.44                 | 19.20           |             |  |
| 5                 | 250KAM     | 1    | 12        |                       | 17.16                 | 17.32                 | 17.22           |             |  |
| 5                 | 250KAM     | 1    | 24        |                       | 17.15                 | 17.32                 | 17.22           |             |  |
| 5                 | 250KAM     | 12   | 0         |                       | 17.05                 | 17.42                 | 17.18           |             |  |
| 5                 | 250KAM     | 12   | 12        |                       | 17.24                 | 17.38                 | 17.13           |             |  |
| 5                 | 250KAM     | 12   | 19        |                       | 17.21                 | 17.32                 | 17.21           |             |  |
| 5                 | 250KAM     | 25   | 0         |                       | 17.17                 | 17.21                 | 17.09           |             |  |
| 5                 | 250KAM     | 25   | 12        |                       | 17.13                 | 17.31                 | 17.24           |             |  |

| Band 17 Ant0 DS16 |       |     |     |     |                 |                 |                 |                 |                 |             |
|-------------------|-------|-----|-----|-----|-----------------|-----------------|-----------------|-----------------|-----------------|-------------|
| IM                | MMS   | RSS | RSS | RSS | Power<br>On/Off | Power<br>On/Off | Power<br>On/Off | Power<br>On/Off | Turn-up<br>(dB) | MFR<br>(dB) |
| Channel           |       |     |     |     |                 |                 |                 |                 |                 |             |
| Frequency (MHz)   |       |     |     |     | 22780           | 22790           | 22800           | 22810           |                 |             |
| 10                | SPSR  | 1   | 0   |     | 22.82           | 22.05           | 22.05           | 22.49           |                 |             |
| 10                | SPSR  | 1   | 20  |     | 22.68           | 22.57           | 22.57           | 22.41           | 24              | 0           |
| 10                | SPSR  | 1   | 40  |     | 22.68           | 22.57           | 22.57           | 22.33           |                 |             |
| 10                | SPSR  | 25  | 0   |     | 21.97           | 21.97           | 21.97           | 21.60           |                 |             |
| 10                | SPSR  | 25  | 12  |     | 21.96           | 21.43           | 21.50           | 21.60           | 23              | 1           |
| 10                | SPSR  | 25  | 24  |     | 21.96           | 21.43           | 21.50           | 21.60           |                 |             |
| 10                | ISQAM | 56  | 0   |     | 21.48           | 21.54           | 21.41           | 21.42           |                 |             |
| 10                | ISQAM | 1   | 0   |     | 21.58           | 21.78           | 21.54           | 21.54           |                 |             |
| 10                | ISQAM | 1   | 20  |     | 21.58           | 21.78           | 21.54           | 21.58           | 23              | 1           |
| 10                | ISQAM | 1   | 40  |     | 21.41           | 21.05           | 21.05           | 21.42           |                 |             |
| 10                | ISQAM | 25  | 0   |     | 20.57           | 20.64           | 20.51           | 20.51           |                 |             |
| 10                | ISQAM | 25  | 12  |     | 20.51           | 20.06           | 20.06           | 20.28           | 22              | 2           |
| 10                | ISQAM | 25  | 24  |     | 20.51           | 20.06           | 20.06           | 20.28           |                 |             |
| 10                | ISQAM | 56  | 0   |     | 20.42           | 20.41           | 20.39           | 20.39           |                 |             |
| 10                | ISQAM | 56  | 12  |     | 20.37           | 20.71           | 20.71           | 20.65           |                 |             |
| 10                | ISQAM | 1   | 20  |     | 20.52           | 20.70           | 20.70           | 20.25           |                 |             |
| 10                | ISQAM | 1   | 40  |     | 20.56           | 20.83           | 20.81           | 20.61           |                 |             |
| 10                | ISQAM | 1   | 60  |     | 20.56           | 20.83           | 20.81           | 20.75           |                 |             |
| 10                | ISQAM | 25  | 12  |     | 19.82           | 19.83           | 19.83           | 19.71           |                 |             |
| 10                | ISQAM | 25  | 24  |     | 19.61           | 19.81           | 19.64           | 19.64           |                 |             |
| 10                | ISQAM | 25  | 48  |     | 19.76           | 19.76           | 19.76           | 19.76           |                 |             |
| 10                | ISQAM | 1   | 0   |     | 17.61           | 17.71           | 17.71           | 17.51           |                 |             |
| 10                | ISQAM | 1   | 20  |     | 17.64           | 17.60           | 17.37           | 17.37           | 19              | 5           |
| 10                | ISQAM | 1   | 40  |     | 17.47           | 17.38           | 17.38           | 17.38           |                 |             |
| 10                | ISQAM | 25  | 0   |     | 17.54           | 17.67           | 17.67           | 17.47           |                 |             |
| 10                | ISQAM | 25  | 12  |     | 17.54           | 17.69           | 17.33           | 17.33           | 19              | 5           |
| 10                | ISQAM | 25  | 24  |     | 17.54           | 17.69           | 17.33           | 17.33           |                 |             |
| 10                | ISQAM | 56  | 0   |     | 17.31           | 17.42           | 17.10           | 17.10           |                 |             |
| Channel           |       |     |     |     |                 |                 |                 |                 |                 |             |
| Frequency (MHz)   |       |     |     |     | 23375           | 23390           | 23410           | 23430           | Turn-up<br>(dB) | MFR<br>(dB) |
| 5                 | SPSR  | 1   | 0   |     | 22.47           | 22.03           | 22.04           | 22.42           |                 |             |
| 5                 | SPSR  | 1   | 12  |     | 22.56           | 22.31           | 22.31           | 22.42           | 24              | 0           |
| 5                 | SPSR  | 1   | 24  |     | 22.57           | 22.33           | 22.33           | 22.42           |                 |             |
| 5                 | SPSR  | 12  | 0   |     | 21.81           | 21.47           | 21.47           | 21.53           |                 |             |
| 5                 | SPSR  | 12  | 12  |     | 21.81           | 21.47           | 21.47           | 21.40           | 23              | 1           |
| 5                 | SPSR  | 12  | 24  |     | 21.39           | 21.28           | 21.41           | 21.41           |                 |             |
| 5                 | SPSR  | 25  | 0   |     | 21.39           | 21.45           | 21.39           | 21.45           |                 |             |
| 5                 | ISQAM | 1   | 0   |     | 21.53           | 21.68           | 21.50           | 21.50           |                 |             |
| 5                 | ISQAM | 1   | 12  |     | 21.31           | 21.57           | 21.23           | 21.23           |                 |             |
| 5                 | ISQAM | 1   | 24  |     | 21.39           | 21.57           | 21.23           | 21              |                 |             |
| 5                 | ISQAM | 12  | 0   |     | 21.39           | 20.98           | 20.98           | 20.40           | 22              | 2           |
| 5                 | ISQAM | 12  | 12  |     | 20.42           | 20.46           | 20.46           | 20.46           |                 |             |
| 5                 | ISQAM | 12  | 24  |     | 20.42           | 20.46           | 20.46           | 20.46           |                 |             |
| 5                 | ISQAM | 25  | 0   |     | 20.32           | 20.36           | 20.33           | 20.33           |                 |             |
| 5                 | ISQAM | 25  | 12  |     | 20.32           | 20.72           | 20.63           | 20.63           | 22              | 2           |
| 5                 | ISQAM | 1   | 12  |     | 20.54           | 20.64           | 20.60           | 20.60           |                 |             |
| 5                 | ISQAM | 1   | 24  |     | 20.53           | 20.77           | 20.58           | 20.58           |                 |             |
| 5                 | ISQAM | 12  | 0   |     | 19.66           | 19.76           | 19.66           | 19.66           |                 |             |
| 5                 | ISQAM | 12  | 12  |     | 19.53           | 19.62           | 19.57           | 19.57           |                 |             |
| 5                 | ISQAM | 12  | 18  |     | 19.43           | 19.71           | 19.50           | 19.50           | 21              | 3           |
| 5                 | ISQAM | 25  | 0   |     | 19.44           | 19.63           | 19.48           | 19.48           |                 |             |
| 5                 | ISQAM | 25  | 12  |     | 19.41           | 1.99            | 1.99            | 1.99            |                 |             |
| 5                 | ISQAM | 1   | 12  |     | 17.67           | 17.67           | 17.32           | 17.32           | 19              | 5           |
| 5                 | ISQAM | 1   | 24  |     | 17.47           | 17.48           | 17.29           | 17.29           |                 |             |
| 5                 | ISQAM | 12  | 12  |     | 17.42           | 17.42           | 17.17           | 17.17           | 19              | 5           |
| 5                 | ISQAM | 12  | 17  |     | 17.46           | 17.57           | 17.31           | 17.31           |                 |             |
| 5                 | ISQAM | 12  | 19  |     | 17.41           | 17.31           | 17.59           | 17.59           |                 |             |
| 5                 | ISQAM | 12  | 24  |     | 17.41           | 17.38           | 17.51           | 17.51           |                 |             |

| Band 25 Ant0 DS16 |            |         |           |                      |                     |                      |                     |                    |          |      |   |  |
|-------------------|------------|---------|-----------|----------------------|---------------------|----------------------|---------------------|--------------------|----------|------|---|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power High Ch./Freq. | Power Low Ch./Freq. | Power High Ch./Freq. | Power Low Ch./Freq. | Turn-up time (sec) | MPE (dB) |      |   |  |
| Channel           |            |         |           |                      |                     |                      |                     |                    |          |      |   |  |
| Frequency (MHz)   |            |         |           |                      |                     |                      |                     |                    |          |      |   |  |
| 20                | QPSK       | 1       | 0         | 20.25                | 20.33               | 20.28                |                     | 21.2               | 0        |      |   |  |
| 20                | QPSK       | 1       | 49        | 20.18                | 20.19               | 20.17                |                     |                    |          |      |   |  |
| 20                | QPSK       | 1       | 99        | 20.21                | 20.21               | 20.28                |                     |                    |          |      |   |  |
| 20                | QPSK       | 50      | 0         | 20.24                | 20.30               | 20.02                |                     |                    |          |      |   |  |
| 20                | QPSK       | 50      | 24        | 20.13                | 20.13               | 20.08                |                     | 21.2               | 0        |      |   |  |
| 20                | QPSK       | 50      | 50        | 20.09                | 20.09               | 19.89                |                     |                    |          |      |   |  |
| 20                | QPSK       | 100     | 0         | 20.11                | 20.15               | 20.06                |                     |                    |          |      |   |  |
| 20                | 16QAM      | 1       | 40        | 20.20                | 20.22               | 20.29                |                     |                    |          |      |   |  |
| 20                | 16QAM      | 1       | 40        | 20.20                | 20.21               | 20.17                |                     | 21.2               | 0        |      |   |  |
| 20                | 16QAM      | 1       | 99        | 20.16                | 20.28               | 20.08                |                     |                    |          |      |   |  |
| 20                | 16QAM      | 50      | 0         | 20.09                | 20.11               | 20.10                |                     |                    |          |      |   |  |
| 20                | 16QAM      | 50      | 24        | 19.96                | 20.06               | 19.98                |                     |                    |          |      |   |  |
| 20                | 16QAM      | 50      | 50        | 19.99                | 20.05               | 20.11                |                     | 21.2               | 0        |      |   |  |
| 20                | 16QAM      | 1       | 0         | 20.05                | 20.09               | 20.10                |                     |                    |          |      |   |  |
| 20                | 16QAM      | 1       | 49        | 19.96                | 19.98               | 20.07                |                     |                    |          |      |   |  |
| 20                | 16QAM      | 50      | 99        | 19.96                | 20.04               | 19.99                |                     |                    |          |      |   |  |
| 20                | 16QAM      | 50      | 0         | 19.91                | 19.93               | 19.20                |                     | 21                 | 0.2      |      |   |  |
| 20                | 16QAM      | 1       | 0         | 19.98                | 19.97               | 19.13                |                     |                    |          |      |   |  |
| 20                | 16QAM      | 50      | 20        | 19.23                | 19.22               | 19.21                |                     |                    |          |      |   |  |
| 20                | 16QAM      | 100     | 0         | 19.21                | 19.28               | 19.10                |                     |                    |          |      |   |  |
| 20                | 256QAM     | 1       | 99        | 17.23                | 17.18               | 17.23                |                     | 19                 | 2.2      |      |   |  |
| 20                | 256QAM     | 50      | 24        | 17.20                | 17.20               | 17.20                |                     |                    |          |      |   |  |
| 20                | 256QAM     | 50      | 50        | 17.23                | 17.15               | 17.21                |                     |                    |          |      |   |  |
| 20                | 256QAM     | 100     | 0         | 17.16                | 17.16               | 17.16                |                     |                    |          |      |   |  |
| Channel           |            |         |           |                      |                     |                      |                     |                    |          |      |   |  |
| Frequency (MHz)   |            |         |           |                      |                     |                      |                     |                    |          |      |   |  |
| 15                | QPSK       | 1       | 0         | 19.87.5              | 19.90               | 19.97.5              |                     | 21.2               | 0        |      |   |  |
| 15                | QPSK       | 1       | 37        | 19.73                | 19.19               | 19.22                |                     |                    |          |      |   |  |
| 15                | QPSK       | 1       | 74        | 20.06                | 20.16               | 20.18                |                     |                    |          |      |   |  |
| 15                | QPSK       | 36      | 0         | 20.17                | 20.04               | 19.89                |                     |                    |          |      |   |  |
| 15                | QPSK       | 36      | 36        | 20.02                | 19.98               | 19.81                |                     | 21.2               | 0        |      |   |  |
| 15                | QPSK       | 75      | 0         | 20.31                | 20.22               | 20.24                |                     |                    |          |      |   |  |
| 15                | 16QAM      | 1       | 0         | 20.20                | 20.24               | 20.31                |                     |                    |          |      |   |  |
| 15                | 16QAM      | 1       | 37        | 20.07                | 20.17               | 20.03                |                     |                    |          |      |   |  |
| 15                | 16QAM      | 1       | 74        | 20.04                | 20.14               | 20.06                |                     | 21.2               | 0        |      |   |  |
| 15                | 16QAM      | 36      | 0         | 20.03                | 19.98               | 19.84                |                     |                    |          |      |   |  |
| 15                | 16QAM      | 36      | 20        | 19.90                | 19.95               | 19.88                |                     |                    |          |      |   |  |
| 15                | 16QAM      | 36      | 36        | 19.96                | 19.92               | 19.82                |                     |                    |          |      |   |  |
| 15                | 16QAM      | 75      | 0         | 19.85                | 19.86               | 19.84                |                     | 21.2               | 0        |      |   |  |
| 15                | 16QAM      | 1       | 0         | 19.98                | 19.84               | 19.85                |                     |                    |          |      |   |  |
| 15                | 16QAM      | 36      | 37        | 19.97                | 19.97               | 19.97                |                     |                    |          |      |   |  |
| 15                | 16QAM      | 1       | 74        | 19.83                | 20.00               | 19.87                |                     |                    |          |      |   |  |
| 15                | 16QAM      | 36      | 0         | 19.20                | 19.21               | 19.13                |                     | 21                 | 0.2      |      |   |  |
| 15                | 16QAM      | 36      | 20        | 19.23                | 19.26               | 19.26                |                     |                    |          |      |   |  |
| 15                | 16QAM      | 36      | 36        | 19.12                | 19.13               | 19.05                |                     |                    |          |      |   |  |
| 15                | 16QAM      | 75      | 0         | 19.12                | 19.17               | 19.02                |                     |                    |          |      |   |  |
| 15                | 256QAM     | 1       | 37        | 17.07                | 17.12               | 17.07                |                     | 19                 | 2.2      |      |   |  |
| 15                | 256QAM     | 1       | 74        | 17.14                | 17.11               | 17.16                |                     |                    |          |      |   |  |
| 15                | 256QAM     | 36      | 20        | 17.16                | 17.20               | 17.17                |                     |                    |          |      |   |  |
| 15                | 256QAM     | 36      | 20        | 17.02                | 17.08               | 17.05                |                     |                    |          |      |   |  |
| 15                | 256QAM     | 36      | 37        | 17.17                | 17.04               | 17.13                |                     | 19                 | 2.2      |      |   |  |
| 15                | 256QAM     | 75      | 0         | 17.16                | 17.11               | 17.08                |                     |                    |          |      |   |  |
| Channel           |            |         |           |                      |                     |                      |                     |                    |          |      |   |  |
| Frequency (MHz)   |            |         |           |                      |                     |                      |                     |                    |          |      |   |  |
| 10                | QPSK       | 1       | 0         | 20.03                | 20.04               | 20.01                |                     |                    |          | 21.2 | 0 |  |
| 10                | QPSK       | 1       | 25        | 20.04                | 20.11               | 19.98                |                     |                    |          |      |   |  |
| 10                | QPSK       | 1       | 49        | 20.11                | 20.05               | 20.23                |                     |                    |          |      |   |  |
| 10                | QPSK       | 25      | 0         | 20.14                | 20.04               | 19.92                |                     |                    |          |      |   |  |
| 10                | QPSK       | 25      | 12        | 19.99                | 19.99               | 19.99                |                     | 21.2               | 0        |      |   |  |
| 10                | QPSK       | 25      | 25        | 19.98                | 19.93               | 19.79                |                     |                    |          |      |   |  |
| 10                | QPSK       | 36      | 0         | 20.21                | 20.04               | 19.92                |                     |                    |          |      |   |  |
| 10                | 16QAM      | 1       | 0         | 20.16                | 20.20               | 20.19                |                     |                    |          |      |   |  |
| 10                | 16QAM      | 1       | 25        | 20.12                | 20.09               | 20.04                |                     | 21.2               | 0        |      |   |  |
| 10                | 16QAM      | 1       | 49        | 20.07                | 20.08               | 19.92                |                     |                    |          |      |   |  |
| 10                | 16QAM      | 25      | 0         | 19.99                | 19.99               | 19.99                |                     |                    |          |      |   |  |
| 10                | 16QAM      | 25      | 12        | 19.80                | 19.93               | 19.81                |                     |                    |          |      |   |  |
| 10                | 16QAM      | 36      | 0         | 19.86                | 19.92               | 19.85                |                     | 21.2               | 0        |      |   |  |
| 10                | 16QAM      | 36      | 25        | 19.81                | 19.83               | 19.82                |                     |                    |          |      |   |  |
| 10                | 16QAM      | 1       | 0         | 19.95                | 19.97               | 19.99                |                     |                    |          |      |   |  |
| 10                | 16QAM      | 1       | 24        | 19.76                | 19.71               | 17.08                |                     |                    |          |      |   |  |
| 10                | 16QAM      | 1       | 49        | 19.89                | 19.94               | 19.83                |                     | 21                 | 0.2      |      |   |  |
| 10                | 16QAM      | 25      | 0         | 19.16                | 19.24               | 19.13                |                     |                    |          |      |   |  |
| 10                | 16QAM      | 25      | 12        | 19.20                | 19.18               | 19.08                |                     |                    |          |      |   |  |
| 10                | 16QAM      | 25      | 25        | 19.10                | 19.10               | 19.08                |                     |                    |          |      |   |  |
| 10                | 16QAM      | 50      | 0         | 19.08                | 19.12               | 19.09                |                     | 19                 | 2.2      |      |   |  |
| 10                | 256QAM     | 1       | 49        | 17.10                | 17.22               | 17.25                |                     |                    |          |      |   |  |
| 10                | 256QAM     | 1       | 49        | 17.06                | 17.14               | 17.06                |                     |                    |          |      |   |  |
| 10                | 256QAM     | 1       | 49        | 17.03                | 17.20               | 17.25                |                     |                    |          |      |   |  |
| 10                | 256QAM     | 25      | 12        | 17.11                | 17.05               | 17.06                |                     | 19                 | 2.2      |      |   |  |
| 10                | 256QAM     | 25      | 25        | 17.13                | 17.09               | 17.14                |                     |                    |          |      |   |  |
| 10                | 256QAM     | 50      | 0         | 17.03                | 17.13               | 17.07                |                     |                    |          |      |   |  |
| Channel           |            |         |           |                      |                     |                      |                     |                    |          |      |   |  |
| Frequency (MHz)   |            |         |           |                      |                     |                      |                     |                    |          |      |   |  |
| 5                 | QPSK       | 1       | 0         | 20.13                | 20.13               | 20.13                |                     |                    |          | 21.2 | 0 |  |
| 5                 | QPSK       | 1       | 12        | 20.05                | 20.07               | 19.92                |                     |                    |          |      |   |  |
| 5                 | QPSK       | 1       | 24        | 20.15                | 20.11               | 20.18                |                     |                    |          |      |   |  |
| 5                 | QPSK       | 12      | 0         | 20.10                | 20.13               | 19.98                |                     |                    |          |      |   |  |
| 5                 | QPSK       | 12      | 7         | 20.09                | 20.03               | 20.02                |                     | 21.2               | 0        |      |   |  |
| 5                 | QPSK       | 12      | 13        | 20.00                | 19.94               | 19.75                |                     |                    |          |      |   |  |
| 5                 | QPSK       | 25      | 0         | 20.10                | 20.27               | 20.14                |                     |                    |          |      |   |  |
| 5                 | 16QAM      | 1       | 0         | 20.10                | 20.28               | 20.25                |                     |                    |          |      |   |  |
| 5                 | 16QAM      | 1       | 12        | 20.12                | 20.16               | 20.13                |                     | 21.2               | 0        |      |   |  |
| 5                 | 16QAM      | 1       | 24        | 20.03                | 20.24               | 19.95                |                     |                    |          |      |   |  |
| 5                 | 16QAM      | 12      | 0         | 19.85                | 20.00               | 19.88                |                     |                    |          |      |   |  |
| 5                 | 16QAM      | 12      | 7         | 19.87                | 19.91               | 19.87                |                     |                    |          |      |   |  |
| 5                 | 16QAM      | 12      | 13        | 19.87                | 19.93               | 19.85                |                     | 21.2               | 0        |      |   |  |
| 5                 | 16QAM      | 25      | 0         | 19.85                | 19.84               | 19.83                |                     |                    |          |      |   |  |
| 5                 | 16QAM      | 1       | 0         | 19.90                | 19.99               | 19.96                |                     |                    |          |      |   |  |
| 5                 | 16QAM      | 1       | 12        | 19.77                | 19.87               | 19.89                |                     |                    |          |      |   |  |
| 5                 | 16QAM      | 1       | 24        | 19.84                | 19.89               | 19.89                |                     | 21                 | 0.2      |      |   |  |
| 5                 | 16QAM      | 12      | 0         | 19.21                | 19.19               | 19.14                |                     |                    |          |      |   |  |
| 5                 | 16QAM      | 12      | 7         | 19.16                | 19.14               | 19.05                |                     |                    |          |      |   |  |
| 5                 | 16QAM      | 12      | 13        | 19.15                | 19.16               | 19.07                |                     |                    |          |      |   |  |
| 5                 | 16QAM      | 25      | 0         | 19.13                | 19.22               | 19.05                |                     | 19                 | 2.2      |      |   |  |
| 5                 | 256QAM     | 1       | 0         | 17.11                | 17.24               | 17.22                |                     |                    |          |      |   |  |
| 5                 | 256QAM     | 1       | 12        | 17.01                | 17.19               | 17.06                |                     |                    |          |      |   |  |
| 5                 | 256QAM     | 1       | 24        | 17.10                | 17.10               | 17.14                |                     |                    |          |      |   |  |
| 5                 | 256QAM     | 12      | 0         | 17.17                | 17.22               | 17.24                |                     | 19                 | 2.2      |      |   |  |
| 5                 | 256QAM     | 12      | 7         | 17.04                | 17.15               | 17.01                |                     |                    |          |      |   |  |
| 5                 | 256QAM     | 12      | 13        | 17.14                | 17.08               | 17.10                |                     |                    |          |      |   |  |
| 5                 | 256QAM     | 25      | 0         | 17.10                | 17.08               | 17.05                |                     |                    |          |      |   |  |
| Channel           |            |         |           |                      |                     |                      |                     |                    |          |      |   |  |
| Frequency (MHz)   |            |         |           |                      |                     |                      |                     |                    |          |      |   |  |
| 3                 | QPSK       | 1       | 0         | 20.14                | 20.23               | 20.15                |                     |                    |          | 21.2 | 0 |  |
| 3                 | QPSK       | 1       | 8         | 20.09                | 20.14               | 19.91                |                     |                    |          |      |   |  |
| 3                 | QPSK       | 1       | 14        | 20.12                | 20.04               | 20.15                |                     |                    |          |      |   |  |
| 3                 | QPSK       | 8       | 0         | 20.13                | 20.12               | 19.88                |                     |                    |          |      |   |  |
| 3                 | QPSK       | 8       | 4         | 20.06                | 20.08               | 20.00                |                     | 21.2               | 0        |      |   |  |
| 3                 | QPSK       | 8       | 7         | 19.98                | 19.89               | 19.81                |                     |                    |          |      |   |  |
| 3                 | QPSK       | 16      | 0         | 20.22                | 20.26               | 20.27                |                     |                    |          |      |   |  |
| 3                 | 16QAM      | 1       | 0         | 20.09                | 20.19               | 20.19                |                     |                    |          |      |   |  |
| 3                 | 16QAM      | 1       | 8         | 20.09                | 20.19               | 20.19                |                     | 21.2               | 0        |      |   |  |
| 3                 | 16QAM      | 1       | 14        | 20.11                | 20.12               | 20.27                |                     |                    |          |      |   |  |
| 3                 | 16QAM      | 8       | 0         | 20.09                | 20.08               | 19.89                |                     |                    |          |      |   |  |
| 3                 | 16QAM      | 8       | 7         | 19.99                | 19.91               | 19.87                |                     |                    |          |      |   |  |
| 3                 | 16QAM      | 8       | 7         | 19.94                | 19.89               | 20.00                |                     | 21.2               | 0        |      |   |  |
| 3                 | 16QAM      | 16      | 0         | 20.09                | 20.08               | 19.89                |                     |                    |          |      |   |  |
| 3                 | 16QAM      | 16      | 0         | 19.93                | 20.03               | 19.98                |                     |                    |          |      |   |  |
| 3                 | 16QAM      | 8       | 8         | 19.77                | 19.88               | 19.98                |                     |                    |          |      |   |  |
| 3                 | 16QAM      | 8       | 8         | 19.96                | 19.86               | 19.86                |                     | 21                 | 0.2      |      |   |  |
| 3                 | 16QAM      | 8       | 8         | 19.19                | 19.24               | 19.13                |                     |                    |          |      |   |  |
| 3                 | 16QAM      | 8       | 4         | 19.20                | 19.16               | 19.11                |                     |                    |          |      |   |  |
| 3                 | 16QAM      | 12      | 0         | 19.17                | 19.13               | 19.04                |                     |                    |          |      |   |  |
| 3                 | 16QAM      | 16      | 0         | 19.09                | 19.21               | 19.04                |                     | 19                 | 2.2      |      |   |  |
| 3                 | 256QAM     | 1       | 0         | 17.09                | 17.23               | 17.18                |                     |                    |          |      |   |  |
| 3                 | 256QAM     | 1       | 8         | 17.10                | 17.17               | 17.10                |                     |                    |          |      |   |  |
| 3                 | 256QAM     | 1       | 14        | 17.16                | 17.03               | 17.12                |                     |                    |          |      |   |  |
| 3                 | 256QAM     | 8       | 0         | 17.17                | 17.18               | 17.19                |                     | 19                 | 2.2      |      |   |  |
| 3                 | 256QAM     | 8       | 7         | 17.07                | 17.15               | 17.07                |                     |                    |          |      |   |  |
| 3                 | 256QAM     | 8       | 7         | 17.15                | 17.07               | 17.14                |                     |                    |          |      |   |  |
| 3                 | 256QAM     | 16      | 0         | 17.10                | 17.11               | 17.05                |                     |                    |          |      |   |  |
| Channel           |            |         |           |                      |                     |                      |                     |                    |          |      |   |  |
| Frequency (MHz)   |            |         |           |                      |                     |                      |                     |                    |          |      |   |  |
| 1.4               | QPSK       | 1       | 0         | 20.20                | 20.24               | 20.21                |                     |                    |          | 21.2 | 0 |  |
| 1.4               | QPSK       | 1       | 0         | 20.12                | 20.13               | 20.13                |                     |                    |          |      |   |  |
| 1.4               | QPSK       | 1       | 0         | 20.10                | 20.09               | 20.22                |                     |                    |          |      |   |  |
| 1.4               | QPSK       | 3       | 0         | 20.20                | 20.12               | 19.88                |                     |                    |          |      |   |  |
| 1.4               | QPSK       | 3       | 3         | 19.99                | 19.95               | 19.77                |                     | 21.2               | 0        |      |   |  |
| 1.4               | QPSK       | 6       | 0         | 20.25                | 20.15               | 20.21                |                     |                    |          |      |   |  |
| 1.4               | QPSK       | 1       | 3         | 20.09                | 20.10               | 20.09                |                     |                    |          |      |   |  |
| 1.4               | 16QAM      | 1       | 5         | 20.11                | 20.16               | 19.93                |                     |                    |          |      |   |  |
| 1.4               | 16QAM      | 1       | 3         | 19.97                | 19.91               | 19.86                |                     | 21                 | 0        |      |   |  |
| 1.4               | 16QAM      | 3       | 1         | 19.89                | 19.95               | 19.86                |                     |                    |          |      |   |  |
| 1.4               | 16QAM      | 3       | 3         | 19.86                | 19.89               | 20.01                |                     |                    |          |      |   |  |
| 1.4               | 16QAM      | 3       | 3         | 19.87                | 19.86               | 19.86                |                     |                    |          |      |   |  |
| 1.4               | 16QAM      | 3       | 6         | 19.92                | 20.04               | 19.97                |                     | 21.2               | 0        |      |   |  |
| 1.4               | 16QAM      | 1       | 6         | 19.84                | 19.94               | 19.94                |                     |                    |          |      |   |  |
| 1.4               | 16QAM      | 1       | 6         | 19.81                | 19.86               | 19.79                |                     |                    |          |      |   |  |
| 1.4               | 16QAM      | 3       | 6         | 19.88                | 19.94               | 20.03                |                     |                    |          |      |   |  |
| 1.4               | 16QAM      | 3       | 6         | 19.80                | 19.96               | 19.98                |                     | 21                 | 0.2      |      |   |  |
| 1.4               | 16QAM      | 6       | 0         | 19.91                | 19.98               | 19.98                |                     |                    |          |      |   |  |
| 1.4               | 16QAM      | 6       | 3         | 19.83                | 19.98               | 19.98                |                     |                    |          |      |   |  |
| 1.4               | 16QAM      | 6       | 3         | 19.81                | 19.98               | 19.98                |                     |                    |          |      |   |  |
| 1.4               | 256QAM     | 1       | 5         | 17.03                | 17.20               | 17.18                |                     | 19                 | 2.2      |      |   |  |
| 1.4               | 256QAM     | 1       | 5         | 17.23                | 17.23               | 17.23                |                     |                    |          |      |   |  |
| 1.4               | 256QAM     | 3       | 1         | 17.01                | 17.08               | 17.08                |                     |                    |          |      |   |  |
| 1.4               | 256QAM     | 3       | 3         | 17.06                | 17.09               | 17.01                |                     |                    |          |      |   |  |
| 1.4               | 256QAM     | 3       | 3         | 17.11                | 17.06               | 17.06                |                     | 19                 | 2.2      |      |   |  |

| Band 4 Ant1 DS16 |            |         |           |                            |                            |                           |                            |                           |                           |             |  |
|------------------|------------|---------|-----------|----------------------------|----------------------------|---------------------------|----------------------------|---------------------------|---------------------------|-------------|--|
| BW (MHz)         | Modulation | RB Size | RB Offset | Power<br>Mod.<br>Ch./Freq. | Power<br>High<br>Ch./Freq. | Power<br>Low<br>Ch./Freq. | Power<br>High<br>Ch./Freq. | Power<br>Low<br>Ch./Freq. | Time-up<br>Intvl<br>(sec) | MPE<br>(dB) |  |
| Channel          |            |         |           |                            |                            |                           |                            |                           |                           |             |  |
| Frequency (MHz)  |            |         |           |                            |                            |                           |                            |                           |                           |             |  |
| 20               | QPSK       | 1       | 0         | 22.04                      | 22.16                      | 22.08                     |                            |                           | 23.2                      | 0           |  |
| 20               | QPSK       | 1       | 49        | 21.97                      | 21.94                      | 21.94                     |                            |                           |                           |             |  |
| 20               | QPSK       | 1       | 99        | 21.89                      | 22.08                      | 21.91                     |                            |                           |                           |             |  |
| 20               | QPSK       | 50      | 0         | 21.95                      | 22.12                      | 21.93                     |                            |                           |                           |             |  |
| 20               | QPSK       | 24      | 0         | 22.04                      | 21.90                      | 22.01                     |                            |                           |                           |             |  |
| 20               | QPSK       | 50      | 50        | 21.92                      | 21.88                      | 21.80                     |                            |                           | 23                        | 0.2         |  |
| 20               | QPSK       | 100     | 0         | 21.72                      | 21.81                      | 21.75                     |                            |                           |                           |             |  |
| 20               | HQAM       | 50      | 0         | 22.02                      | 22.10                      | 21.98                     |                            |                           |                           |             |  |
| 20               | HQAM       | 1       | 49        | 21.93                      | 22.04                      | 21.94                     |                            |                           | 23                        | 0.2         |  |
| 20               | HQAM       | 1       | 99        | 21.84                      | 21.98                      | 21.90                     |                            |                           |                           |             |  |
| 20               | HQAM       | 50      | 0         | 20.91                      | 21.03                      | 20.99                     |                            |                           |                           |             |  |
| 20               | HQAM       | 50      | 24        | 20.92                      | 20.95                      | 20.87                     |                            |                           | 22                        | 1.2         |  |
| 20               | HQAM       | 50      | 50        | 20.81                      | 20.88                      | 20.78                     |                            |                           |                           |             |  |
| 20               | HQAM       | 100     | 0         | 20.85                      | 20.91                      | 20.82                     |                            |                           |                           |             |  |
| 20               | HQAM       | 1       | 0         | 21.01                      | 21.07                      | 21.01                     |                            |                           |                           |             |  |
| 20               | HQAM       | 1       | 49        | 20.86                      | 20.89                      | 20.80                     |                            |                           | 22                        | 1.2         |  |
| 20               | HQAM       | 50      | 0         | 20.99                      | 20.98                      | 20.90                     |                            |                           |                           |             |  |
| 20               | HQAM       | 50      | 0         | 19.06                      | 20.04                      | 19.95                     |                            |                           |                           |             |  |
| 20               | HQAM       | 50      | 24        | 19.98                      | 20.05                      | 20.00                     |                            |                           |                           |             |  |
| 20               | HQAM       | 50      | 50        | 19.97                      | 19.97                      | 19.92                     |                            |                           | 21                        | 2.2         |  |
| 20               | HQAM       | 100     | 0         | 20.18                      | 20.32                      | 20.22                     |                            |                           |                           |             |  |
| 20               | HQAM       | 1       | 49        | 17.73                      | 17.67                      | 17.70                     |                            |                           |                           |             |  |
| 20               | HQAM       | 1       | 49        | 17.72                      | 17.78                      | 17.67                     |                            |                           | 19                        | 4.2         |  |
| 20               | SSBQAM     | 1       | 99        | 17.48                      | 17.57                      | 17.43                     |                            |                           |                           |             |  |
| 20               | SSBQAM     | 50      | 0         | 17.55                      | 17.64                      | 17.58                     |                            |                           |                           |             |  |
| 20               | SSBQAM     | 50      | 24        | 17.38                      | 17.52                      | 17.45                     |                            |                           | 19                        | 4.2         |  |
| 20               | SSBQAM     | 50      | 50        | 17.48                      | 17.63                      | 17.58                     |                            |                           |                           |             |  |
| 20               | SSBQAM     | 100     | 0         | 17.60                      | 17.65                      | 17.60                     |                            |                           |                           |             |  |
| Channel          |            |         |           |                            |                            |                           |                            |                           |                           |             |  |
| Frequency (MHz)  |            |         |           |                            |                            |                           |                            |                           |                           |             |  |
| 15               | QPSK       | 1       | 0         | 21.86                      | 22.08                      | 22.07                     |                            |                           | 23.2                      | 0           |  |
| 15               | QPSK       | 1       | 37        | 21.91                      | 21.98                      | 21.92                     |                            |                           |                           |             |  |
| 15               | QPSK       | 1       | 74        | 21.91                      | 21.95                      | 21.93                     |                            |                           |                           |             |  |
| 15               | QPSK       | 36      | 0         | 21.85                      | 22.02                      | 21.95                     |                            |                           |                           |             |  |
| 15               | QPSK       | 36      | 20        | 21.89                      | 21.98                      | 21.85                     |                            |                           |                           |             |  |
| 15               | QPSK       | 36      | 36        | 21.92                      | 21.91                      | 21.78                     |                            |                           | 23                        | 0.2         |  |
| 15               | QPSK       | 75      | 0         | 21.67                      | 21.78                      | 21.71                     |                            |                           |                           |             |  |
| 15               | HQAM       | 1       | 49        | 21.04                      | 21.03                      | 21.00                     |                            |                           |                           |             |  |
| 15               | HQAM       | 1       | 37        | 21.89                      | 21.98                      | 21.83                     |                            |                           | 23                        | 0.2         |  |
| 15               | HQAM       | 1       | 49        | 21.88                      | 21.89                      | 21.80                     |                            |                           |                           |             |  |
| 15               | HQAM       | 36      | 0         | 20.77                      | 20.91                      | 20.83                     |                            |                           |                           |             |  |
| 15               | HQAM       | 36      | 20        | 20.70                      | 20.80                      | 20.79                     |                            |                           | 22                        | 1.2         |  |
| 15               | HQAM       | 36      | 36        | 20.73                      | 20.81                      | 20.68                     |                            |                           |                           |             |  |
| 15               | HQAM       | 75      | 0         | 20.73                      | 20.81                      | 20.68                     |                            |                           |                           |             |  |
| 15               | HQAM       | 1       | 0         | 20.88                      | 21.01                      | 20.92                     |                            |                           |                           |             |  |
| 15               | HQAM       | 37      | 0         | 20.72                      | 20.85                      | 20.78                     |                            |                           | 22                        | 1.2         |  |
| 15               | HQAM       | 1       | 74        | 20.76                      | 20.85                      | 20.73                     |                            |                           |                           |             |  |
| 15               | HQAM       | 36      | 0         | 19.81                      | 19.97                      | 19.81                     |                            |                           |                           |             |  |
| 15               | HQAM       | 36      | 20        | 19.85                      | 19.99                      | 19.80                     |                            |                           |                           |             |  |
| 15               | HQAM       | 36      | 36        | 19.80                      | 19.94                      | 19.75                     |                            |                           | 21                        | 2.2         |  |
| 15               | HQAM       | 75      | 0         | 20.07                      | 20.24                      | 20.09                     |                            |                           |                           |             |  |
| 15               | HQAM       | 1       | 49        | 17.56                      | 17.60                      | 17.58                     |                            |                           |                           |             |  |
| 15               | SSBQAM     | 1       | 37        | 17.58                      | 17.67                      | 17.51                     |                            |                           | 19                        | 4.2         |  |
| 15               | SSBQAM     | 1       | 74        | 17.38                      | 17.47                      | 17.30                     |                            |                           |                           |             |  |
| 15               | SSBQAM     | 50      | 0         | 17.44                      | 17.45                      | 17.43                     |                            |                           |                           |             |  |
| 15               | SSBQAM     | 36      | 20        | 17.26                      | 17.43                      | 17.33                     |                            |                           | 19                        | 4.2         |  |
| 15               | SSBQAM     | 36      | 36        | 17.49                      | 17.53                      | 17.47                     |                            |                           |                           |             |  |
| 15               | SSBQAM     | 75      | 0         | 17.15                      | 17.42                      | 17.40                     |                            |                           |                           |             |  |
| Channel          |            |         |           |                            |                            |                           |                            |                           |                           |             |  |
| Frequency (MHz)  |            |         |           |                            |                            |                           |                            |                           |                           |             |  |
| 10               | QPSK       | 1       | 0         | 21.09                      | 22.18                      | 22.09                     |                            |                           | 23.2                      | 0           |  |
| 10               | QPSK       | 1       | 25        | 21.08                      | 21.97                      | 21.81                     |                            |                           |                           |             |  |
| 10               | QPSK       | 1       | 49        | 21.04                      | 21.83                      | 21.94                     |                            |                           |                           |             |  |
| 10               | QPSK       | 25      | 0         | 21.07                      | 21.02                      | 21.00                     |                            |                           |                           |             |  |
| 10               | QPSK       | 25      | 12        | 21.04                      | 21.79                      | 21.94                     |                            |                           | 23                        | 0.2         |  |
| 10               | QPSK       | 25      | 25        | 21.85                      | 21.82                      | 21.81                     |                            |                           |                           |             |  |
| 10               | QPSK       | 100     | 0         | 21.03                      | 21.03                      | 21.00                     |                            |                           |                           |             |  |
| 10               | HQAM       | 1       | 0         | 21.04                      | 22.03                      | 21.92                     |                            |                           |                           |             |  |
| 10               | HQAM       | 1       | 25        | 21.86                      | 22.02                      | 21.83                     |                            |                           | 23                        | 0.2         |  |
| 10               | HQAM       | 1       | 49        | 21.88                      | 21.89                      | 21.80                     |                            |                           |                           |             |  |
| 10               | HQAM       | 25      | 0         | 20.89                      | 20.97                      | 20.77                     |                            |                           |                           |             |  |
| 10               | HQAM       | 25      | 12        | 20.87                      | 20.85                      | 20.79                     |                            |                           | 22                        | 1.2         |  |
| 10               | HQAM       | 75      | 0         | 20.70                      | 20.80                      | 20.70                     |                            |                           |                           |             |  |
| 10               | HQAM       | 50      | 0         | 20.71                      | 20.86                      | 20.72                     |                            |                           |                           |             |  |
| 10               | HQAM       | 1       | 0         | 20.88                      | 20.94                      | 20.89                     |                            |                           |                           |             |  |
| 10               | HQAM       | 1       | 25        | 20.74                      | 20.84                      | 20.74                     |                            |                           | 22                        | 1.2         |  |
| 10               | HQAM       | 1       | 49        | 20.78                      | 20.88                      | 20.88                     |                            |                           |                           |             |  |
| 10               | HQAM       | 25      | 0         | 19.89                      | 19.97                      | 19.90                     |                            |                           |                           |             |  |
| 10               | HQAM       | 25      | 12        | 19.88                      | 19.92                      | 19.87                     |                            |                           |                           |             |  |
| 10               | HQAM       | 25      | 25        | 19.81                      | 19.88                      | 19.79                     |                            |                           | 21                        | 2.2         |  |
| 10               | HQAM       | 50      | 0         | 20.11                      | 20.22                      | 20.08                     |                            |                           |                           |             |  |
| 10               | SSBQAM     | 1       | 49        | 17.65                      | 17.71                      | 17.63                     |                            |                           |                           |             |  |
| 10               | SSBQAM     | 1       | 25        | 17.65                      | 17.73                      | 17.58                     |                            |                           | 19                        | 4.2         |  |
| 10               | SSBQAM     | 1       | 49        | 17.42                      | 17.49                      | 17.33                     |                            |                           |                           |             |  |
| 10               | SSBQAM     | 50      | 0         | 17.50                      | 17.51                      | 17.43                     |                            |                           |                           |             |  |
| 10               | SSBQAM     | 25      | 12        | 17.29                      | 17.42                      | 17.36                     |                            |                           | 19                        | 4.2         |  |
| 10               | SSBQAM     | 25      | 25        | 17.35                      | 17.49                      | 17.47                     |                            |                           |                           |             |  |
| 10               | SSBQAM     | 50      | 0         | 17.58                      | 17.62                      | 17.49                     |                            |                           |                           |             |  |
| Channel          |            |         |           |                            |                            |                           |                            |                           |                           |             |  |
| Frequency (MHz)  |            |         |           |                            |                            |                           |                            |                           |                           |             |  |
| 5                | QPSK       | 1       | 0         | 22.03                      | 22.09                      | 22.03                     |                            |                           | 23.2                      | 0           |  |
| 5                | QPSK       | 1       | 12        | 21.89                      | 21.91                      | 21.90                     |                            |                           |                           |             |  |
| 5                | QPSK       | 1       | 24        | 21.88                      | 22.02                      | 21.95                     |                            |                           |                           |             |  |
| 5                | QPSK       | 12      | 0         | 21.94                      | 21.92                      | 21.95                     |                            |                           |                           |             |  |
| 5                | QPSK       | 12      | 7         | 21.90                      | 21.80                      | 21.92                     |                            |                           | 23                        | 0.2         |  |
| 5                | QPSK       | 12      | 13        | 21.92                      | 21.88                      | 21.80                     |                            |                           |                           |             |  |
| 5                | QPSK       | 15      | 0         | 21.65                      | 21.71                      | 21.62                     |                            |                           |                           |             |  |
| 5                | HQAM       | 1       | 0         | 22.01                      | 21.96                      | 21.92                     |                            |                           |                           |             |  |
| 5                | HQAM       | 1       | 12        | 21.91                      | 22.04                      | 21.87                     |                            |                           | 23                        | 0.2         |  |
| 5                | HQAM       | 1       | 24        | 21.87                      | 21.98                      | 21.85                     |                            |                           |                           |             |  |
| 5                | HQAM       | 12      | 0         | 20.82                      | 20.80                      | 20.77                     |                            |                           |                           |             |  |
| 5                | HQAM       | 12      | 7         | 20.69                      | 20.80                      | 20.73                     |                            |                           | 22                        | 1.2         |  |
| 5                | HQAM       | 12      | 13        | 20.69                      | 20.81                      | 20.68                     |                            |                           |                           |             |  |
| 5                | HQAM       | 15      | 0         | 20.71                      | 20.81                      | 20.70                     |                            |                           |                           |             |  |
| 5                | HQAM       | 1       | 0         | 20.90                      | 20.93                      | 20.95                     |                            |                           | 22                        | 1.2         |  |
| 5                | HQAM       | 1       | 12        | 20.77                      | 20.87                      | 20.78                     |                            |                           |                           |             |  |
| 5                | HQAM       | 1       | 24        | 20.80                      | 20.85                      | 20.85                     |                            |                           |                           |             |  |
| 5                | HQAM       | 12      | 0         | 19.82                      | 19.92                      | 19.87                     |                            |                           |                           |             |  |
| 5                | HQAM       | 12      | 7         | 19.83                      | 19.95                      | 19.85                     |                            |                           |                           |             |  |
| 5                | HQAM       | 12      | 13        | 19.77                      | 19.89                      | 19.78                     |                            |                           | 21                        | 2.2         |  |
| 5                | HQAM       | 25      | 0         | 20.12                      | 20.21                      | 20.13                     |                            |                           |                           |             |  |
| 5                | SSBQAM     | 1       | 49        | 17.63                      | 17.68                      | 17.63                     |                            |                           |                           |             |  |
| 5                | SSBQAM     | 1       | 25        | 17.62                      | 17.68                      | 17.58                     |                            |                           | 19                        | 4.2         |  |
| 5                | SSBQAM     | 1       | 49        | 17.40                      | 17.44                      | 17.36                     |                            |                           |                           |             |  |
| 5                | SSBQAM     | 12      | 0         | 17.48                      | 17.52                      | 17.48                     |                            |                           |                           |             |  |
| 5                | SSBQAM     | 12      | 7         | 17.30                      | 17.42                      | 17.31                     |                            |                           | 19                        | 4.2         |  |
| 5                | SSBQAM     | 12      | 13        | 17.40                      | 17.54                      | 17.46                     |                            |                           |                           |             |  |
| 5                | SSBQAM     | 25      | 0         | 17.65                      | 17.64                      | 17.49                     |                            |                           |                           |             |  |
| Channel          |            |         |           |                            |                            |                           |                            |                           |                           |             |  |
| Frequency (MHz)  |            |         |           |                            |                            |                           |                            |                           |                           |             |  |
| 3                | QPSK       | 1       | 0         | 22.03                      | 22.12                      | 22.05                     |                            |                           | 23.2                      | 0           |  |
| 3                | QPSK       | 1       | 8         | 21.85                      | 21.91                      | 21.90                     |                            |                           |                           |             |  |
| 3                | QPSK       | 1       | 14        | 21.89                      | 21.93                      | 21.85                     |                            |                           |                           |             |  |
| 3                | QPSK       | 8       | 0         | 21.09                      | 21.07                      | 21.05                     |                            |                           |                           |             |  |
| 3                | QPSK       | 8       | 4         | 21.84                      | 21.79                      | 21.87                     |                            |                           | 23                        | 0.2         |  |
| 3                | QPSK       | 8       | 7         | 21.86                      | 21.90                      | 21.78                     |                            |                           |                           |             |  |
| 3                | QPSK       | 15      | 0         | 21.09                      | 21.71                      | 21.65                     |                            |                           |                           |             |  |
| 3                | HQAM       | 1       | 0         | 21.07                      | 22.03                      | 21.93                     |                            |                           |                           |             |  |
| 3                | HQAM       | 1       | 8         | 21.89                      | 21.97                      | 21.85                     |                            |                           | 23                        | 0.2         |  |
| 3                | HQAM       | 1       | 14        | 21.77                      | 21.96                      | 21.85                     |                            |                           |                           |             |  |
| 3                | HQAM       | 8       | 0         | 20.79                      | 20.94                      | 20.75                     |                            |                           |                           |             |  |
| 3                | HQAM       | 8       | 4         | 20.74                      | 20.89                      | 20.80                     |                            |                           | 22                        | 1.2         |  |
| 3                | HQAM       | 8       | 7         | 20.69                      | 20.77                      | 20.69                     |                            |                           |                           |             |  |
| 3                | HQAM       | 15      | 0         | 20.71                      | 20.78                      | 20.77                     |                            |                           |                           |             |  |
| 3                | HQAM       | 1       | 0         | 20.72                      | 20.82                      | 20.74                     |                            |                           | 22                        | 1.2         |  |
| 3                | HQAM       | 1       | 14        | 20.76                      | 20.84                      | 20.85                     |                            |                           |                           |             |  |
| 3                | HQAM       | 8       | 0         | 19.89                      | 19.92                      | 19.82                     |                            |                           |                           |             |  |
| 3                | HQAM       | 8       | 4         | 19.87                      | 19.92                      | 19.83                     |                            |                           | 21                        | 2.2         |  |
| 3                | HQAM       | 8       | 7         | 19.72                      | 19.91                      | 19.82                     |                            |                           |                           |             |  |
| 3                | HQAM       | 15      | 0         | 17.68                      | 17.73                      | 17.68                     |                            |                           |                           |             |  |
| 3                | SSBQAM     | 1       | 0         | 17.68                      | 17.73                      | 17.68                     |                            |                           |                           |             |  |
| 3                | SSBQAM     | 1       | 14        | 17.43                      | 17.45                      | 17.38                     |                            |                           |                           |             |  |
| 3                | SSBQAM     | 1       | 14        | 17.43                      | 17.45                      | 17.38                     |                            |                           | 19                        | 4.2         |  |
| 3                | SSBQAM     | 8       | 0         | 17.25                      | 17.43                      | 17.25                     |                            |                           |                           |             |  |
| 3                | SSBQAM     | 8       | 7         | 17.33                      | 17.47                      | 17.40                     |                            |                           |                           |             |  |
| 3                | SSBQAM     | 15      | 0         | 17.66                      | 17.65                      | 17.53                     |                            |                           |                           |             |  |
| Channel          |            |         |           |                            |                            |                           |                            |                           |                           |             |  |
| Frequency (MHz)  |            |         |           |                            |                            |                           |                            |                           |                           |             |  |
| 1.4              | QPSK       | 1       | 0         | 22.00                      | 22.11                      | 22.06                     |                            |                           | 23.2                      | 0           |  |
| 1.4              | QPSK       | 1       | 3         | 21.91                      | 21.90                      | 21.90                     |                            |                           |                           |             |  |
| 1.4              | QPSK       | 1       | 5         | 21.93                      | 21.99                      | 21.93                     |                            |                           |                           |             |  |
| 1.4              | QPSK       | 3       | 0         | 21.97                      | 22.07                      | 21.97                     |                            |                           |                           |             |  |
| 1.4              | QPSK       | 3       | 1         | 21.96                      | 21.96                      | 21.91                     |                            |                           |                           |             |  |
| 1.4              | QPSK       | 3       | 3         | 21.92                      | 22.03                      | 21.91                     |                            |                           | 22.3                      |             |  |
| 1.4              | HQAM       | 1       | 0         | 21.89                      | 21.92                      |                           |                            |                           |                           |             |  |



| Band 38 Ant1 DS16 |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
|-------------------|------------|---------|-----------|---------------------|----------------------|----------------------|---------------------|----------|--|--|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Main Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Channel           |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| Frequency (MHz)   |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 38760 38900 38160 |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 20                | QPSK       | 1       | 0         | 22.13               | 22.21                | 22.04                | 23.3                | 0        |  |  |  |  |
| 20                | QPSK       | 1       | 48        | 22.12               | 22.18                | 22.15                |                     |          |  |  |  |  |
| 20                | QPSK       | 1       | 96        | 22.09               | 22.09                | 22.06                |                     |          |  |  |  |  |
| 20                | QPSK       | 50      | 0         | 21.21               | 21.26                | 21.20                |                     |          |  |  |  |  |
| 20                | QPSK       | 50      | 24        | 21.01               | 21.15                | 21.10                | 23                  | 0.3      |  |  |  |  |
| 20                | QPSK       | 50      | 48        | 21.02               | 21.11                | 21.04                |                     |          |  |  |  |  |
| 20                | QPSK       | 100     | 0         | 21.21               | 21.41                | 21.27                |                     |          |  |  |  |  |
| 20                | 16QAM      | 1       | 0         | 21.21               | 21.36                | 21.28                |                     |          |  |  |  |  |
| 20                | 16QAM      | 1       | 48        | 21.10               | 21.23                | 21.13                | 23                  | 0.3      |  |  |  |  |
| 20                | 16QAM      | 1       | 96        | 21.12               | 21.19                | 21.14                |                     |          |  |  |  |  |
| 20                | 16QAM      | 50      | 0         | 20.94               | 20.94                | 20.96                |                     |          |  |  |  |  |
| 20                | 16QAM      | 50      | 24        | 20.40               | 20.47                | 20.32                |                     |          |  |  |  |  |
| 20                | 16QAM      | 50      | 50        | 20.36               | 20.45                | 20.31                | 22                  | 1.3      |  |  |  |  |
| 20                | 16QAM      | 100     | 0         | 20.29               | 20.41                | 20.42                |                     |          |  |  |  |  |
| 20                | 16QAM      | 100     | 0         | 20.35               | 20.17                | 20.15                |                     |          |  |  |  |  |
| 20                | 16QAM      | 1       | 48        | 20.02               | 20.13                | 20.01                |                     |          |  |  |  |  |
| 20                | 16QAM      | 1       | 96        | 20.04               | 20.15                | 20.06                | 21                  | 2.3      |  |  |  |  |
| 20                | 16QAM      | 50      | 0         | 19.43               | 19.58                | 19.54                |                     |          |  |  |  |  |
| 20                | 16QAM      | 50      | 24        | 19.38               | 19.52                | 19.43                |                     |          |  |  |  |  |
| 20                | 16QAM      | 50      | 50        | 19.42               | 19.50                | 19.45                |                     |          |  |  |  |  |
| 20                | 16QAM      | 100     | 0         | 19.41               | 19.48                | 19.37                | 19                  | 4.3      |  |  |  |  |
| 20                | 256QAM     | 1       | 0         | 17.37               | 17.42                | 17.40                |                     |          |  |  |  |  |
| 20                | 256QAM     | 1       | 48        | 17.24               | 17.31                | 17.16                |                     |          |  |  |  |  |
| 20                | 256QAM     | 1       | 96        | 17.23               | 17.24                | 17.14                |                     |          |  |  |  |  |
| 20                | 256QAM     | 50      | 0         | 17.20               | 17.30                | 17.40                | 19                  | 4.3      |  |  |  |  |
| 20                | 256QAM     | 50      | 24        | 17.20               | 17.35                | 17.18                |                     |          |  |  |  |  |
| 20                | 256QAM     | 50      | 50        | 17.22               | 17.28                | 17.18                |                     |          |  |  |  |  |
| 20                | 256QAM     | 100     | 0         | 17.25               | 17.29                | 17.17                |                     |          |  |  |  |  |
| Channel           |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 38760 38900 38175 |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| Frequency (MHz)   |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 38760 38900 38175 |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 15                | QPSK       | 1       | 0         | 22.17               | 22.18                | 22.13                | 23.3                | 0        |  |  |  |  |
| 15                | QPSK       | 1       | 37        | 22.10               | 22.11                | 22.09                |                     |          |  |  |  |  |
| 15                | QPSK       | 1       | 74        | 22.08               | 22.13                | 22.09                |                     |          |  |  |  |  |
| 15                | QPSK       | 36      | 0         | 21.06               | 21.13                | 21.12                |                     |          |  |  |  |  |
| 15                | QPSK       | 36      | 20        | 21.02               | 21.06                | 21.07                | 23                  | 0.3      |  |  |  |  |
| 15                | QPSK       | 36      | 39        | 21.11               | 21.07                | 21.08                |                     |          |  |  |  |  |
| 15                | QPSK       | 75      | 0         | 21.08               | 21.30                | 21.20                |                     |          |  |  |  |  |
| 15                | 16QAM      | 1       | 0         | 21.10               | 21.24                | 21.14                |                     |          |  |  |  |  |
| 15                | 16QAM      | 1       | 37        | 21.05               | 21.11                | 21.07                | 23                  | 0.3      |  |  |  |  |
| 15                | 16QAM      | 1       | 74        | 21.03               | 21.13                | 21.04                |                     |          |  |  |  |  |
| 15                | 16QAM      | 36      | 0         | 20.47               | 20.43                | 20.38                |                     |          |  |  |  |  |
| 15                | 16QAM      | 36      | 20        | 20.20               | 20.34                | 20.26                |                     |          |  |  |  |  |
| 15                | 16QAM      | 36      | 39        | 20.23               | 20.35                | 20.22                | 22                  | 1.3      |  |  |  |  |
| 15                | 16QAM      | 75      | 0         | 20.28               | 20.29                | 20.34                |                     |          |  |  |  |  |
| 15                | 16QAM      | 1       | 0         | 20.22               | 20.07                | 20.07                |                     |          |  |  |  |  |
| 15                | 16QAM      | 1       | 37        | 20.03               | 20.09                | 20.01                |                     |          |  |  |  |  |
| 15                | 16QAM      | 1       | 74        | 20.08               | 20.11                | 20.06                | 22                  | 1.3      |  |  |  |  |
| 15                | 16QAM      | 36      | 0         | 19.20               | 19.43                | 19.43                |                     |          |  |  |  |  |
| 15                | 16QAM      | 36      | 20        | 19.31               | 19.37                | 19.37                |                     |          |  |  |  |  |
| 15                | 16QAM      | 36      | 39        | 19.33               | 19.44                | 19.33                |                     |          |  |  |  |  |
| 15                | 16QAM      | 75      | 0         | 19.32               | 19.40                | 19.29                | 21                  | 2.3      |  |  |  |  |
| 15                | 16QAM      | 1       | 0         | 17.29               | 17.28                | 17.28                |                     |          |  |  |  |  |
| 15                | 256QAM     | 1       | 37        | 17.21               | 17.21                | 17.03                |                     |          |  |  |  |  |
| 15                | 256QAM     | 1       | 74        | 17.08               | 17.18                | 17.00                |                     |          |  |  |  |  |
| 15                | 256QAM     | 36      | 0         | 17.22               | 17.30                | 17.31                | 19                  | 4.3      |  |  |  |  |
| 15                | 256QAM     | 36      | 20        | 17.08               | 17.25                | 17.05                |                     |          |  |  |  |  |
| 15                | 256QAM     | 36      | 39        | 17.13               | 17.14                | 17.06                |                     |          |  |  |  |  |
| 15                | 256QAM     | 75      | 0         | 17.17               | 17.16                | 17.06                |                     |          |  |  |  |  |
| Channel           |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 38760 38900 38175 |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| Frequency (MHz)   |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 38760 38900 38175 |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 10                | QPSK       | 1       | 0         | 22.10               | 22.19                | 22.13                | 23.3                | 0        |  |  |  |  |
| 10                | QPSK       | 1       | 25        | 22.10               | 22.12                | 22.13                |                     |          |  |  |  |  |
| 10                | QPSK       | 1       | 48        | 22.08               | 22.14                | 22.02                |                     |          |  |  |  |  |
| 10                | QPSK       | 25      | 0         | 21.14               | 21.30                | 21.16                |                     |          |  |  |  |  |
| 10                | QPSK       | 25      | 12        | 21.06               | 21.08                | 21.07                | 23                  | 0.3      |  |  |  |  |
| 10                | QPSK       | 25      | 25        | 21.01               | 21.06                | 21.00                |                     |          |  |  |  |  |
| 10                | QPSK       | 50      | 0         | 21.08               | 21.36                | 21.21                |                     |          |  |  |  |  |
| 10                | 16QAM      | 1       | 0         | 21.10               | 21.30                | 21.16                |                     |          |  |  |  |  |
| 10                | 16QAM      | 1       | 25        | 21.05               | 21.12                | 21.04                | 23                  | 0.3      |  |  |  |  |
| 10                | 16QAM      | 1       | 48        | 21.01               | 21.07                | 21.00                |                     |          |  |  |  |  |
| 10                | 16QAM      | 25      | 0         | 20.47               | 20.44                | 20.36                |                     |          |  |  |  |  |
| 10                | 16QAM      | 25      | 0         | 20.47               | 20.44                | 20.36                |                     |          |  |  |  |  |
| 10                | 16QAM      | 25      | 12        | 20.34               | 20.34                | 20.26                | 22                  | 1.3      |  |  |  |  |
| 10                | 16QAM      | 25      | 12        | 20.35               | 20.40                | 20.17                |                     |          |  |  |  |  |
| 10                | 16QAM      | 50      | 0         | 20.32               | 20.33                | 20.36                |                     |          |  |  |  |  |
| 10                | 16QAM      | 1       | 0         | 20.27               | 20.30                | 20.37                |                     |          |  |  |  |  |
| 10                | 16QAM      | 1       | 25        | 20.28               | 20.33                | 20.23                | 22                  | 1.3      |  |  |  |  |
| 10                | 16QAM      | 1       | 48        | 20.34               | 20.31                | 20.21                |                     |          |  |  |  |  |
| 10                | 16QAM      | 25      | 0         | 19.33               | 19.48                | 19.40                |                     |          |  |  |  |  |
| 10                | 16QAM      | 25      | 12        | 19.26               | 19.39                | 19.35                |                     |          |  |  |  |  |
| 10                | 16QAM      | 25      | 25        | 19.28               | 19.41                | 19.33                | 21                  | 2.3      |  |  |  |  |
| 10                | 16QAM      | 50      | 0         | 19.30               | 19.36                | 19.31                |                     |          |  |  |  |  |
| 10                | 256QAM     | 1       | 0         | 17.29               | 17.35                | 17.09                |                     |          |  |  |  |  |
| 10                | 256QAM     | 1       | 25        | 17.10               | 17.20                | 17.10                |                     |          |  |  |  |  |
| 10                | 256QAM     | 1       | 48        | 17.10               | 17.18                | 17.03                | 19                  | 4.3      |  |  |  |  |
| 10                | 256QAM     | 25      | 0         | 17.26               | 17.29                | 17.27                |                     |          |  |  |  |  |
| 10                | 256QAM     | 25      | 12        | 17.09               | 17.20                | 17.04                |                     |          |  |  |  |  |
| 10                | 256QAM     | 25      | 25        | 17.14               | 17.23                | 17.12                |                     |          |  |  |  |  |
| 10                | 256QAM     | 50      | 0         | 17.18               | 17.21                | 17.03                | 19                  | 4.3      |  |  |  |  |
| Channel           |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 38760 38900 38175 |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| Frequency (MHz)   |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 38760 38900 38175 |            |         |           |                     |                      |                      |                     |          |  |  |  |  |
| 5                 | QPSK       | 1       | 0         | 22.06               | 22.14                | 22.07                | 23.3                | 0        |  |  |  |  |
| 5                 | QPSK       | 1       | 16        | 22.05               | 22.11                | 22.00                |                     |          |  |  |  |  |
| 5                 | QPSK       | 1       | 24        | 22.04               | 22.09                | 22.06                |                     |          |  |  |  |  |
| 5                 | QPSK       | 12      | 0         | 21.07               | 21.11                | 21.07                |                     |          |  |  |  |  |
| 5                 | QPSK       | 12      | 7         | 21.05               | 21.00                | 21.06                | 23                  | 0.3      |  |  |  |  |
| 5                 | QPSK       | 12      | 16        | 21.07               | 21.13                | 21.09                |                     |          |  |  |  |  |
| 5                 | QPSK       | 25      | 0         | 21.12               | 21.24                | 21.11                |                     |          |  |  |  |  |
| 5                 | 16QAM      | 1       | 0         | 21.01               | 21.15                | 21.02                |                     |          |  |  |  |  |
| 5                 | 16QAM      | 1       | 12        | 21.03               | 21.17                | 21.15                | 23                  | 0.3      |  |  |  |  |
| 5                 | 16QAM      | 1       | 24        | 21.06               | 21.16                | 21.00                |                     |          |  |  |  |  |
| 5                 | 16QAM      | 12      | 0         | 20.40               | 20.29                | 20.26                |                     |          |  |  |  |  |
| 5                 | 16QAM      | 12      | 7         | 20.39               | 20.27                | 20.20                |                     |          |  |  |  |  |
| 5                 | 16QAM      | 12      | 16        | 20.17               | 20.29                | 20.06                | 22                  | 1.3      |  |  |  |  |
| 5                 | 16QAM      | 25      | 0         | 20.25               | 20.21                | 20.22                |                     |          |  |  |  |  |
| 5                 | 16QAM      | 1       | 0         | 20.18               | 20.21                | 20.18                |                     |          |  |  |  |  |
| 5                 | 16QAM      | 1       | 12        | 20.20               | 20.24                | 20.16                |                     |          |  |  |  |  |
| 5                 | 16QAM      | 1       | 24        | 20.16               | 20.21                | 20.07                | 22                  | 1.3      |  |  |  |  |
| 5                 | 16QAM      | 12      | 0         | 19.24               | 19.35                | 19.27                |                     |          |  |  |  |  |
| 5                 | 16QAM      | 12      | 7         | 19.20               | 19.28                | 19.28                |                     |          |  |  |  |  |
| 5                 | 16QAM      | 25      | 0         | 19.20               | 19.29                | 19.22                |                     |          |  |  |  |  |
| 5                 | 256QAM     | 1       | 0         | 17.24               | 17.29                | 17.19                | 21                  | 2.3      |  |  |  |  |
| 5                 | 256QAM     | 1       | 12        | 17.03               | 17.12                | 17.02                |                     |          |  |  |  |  |
| 5                 | 256QAM     | 1       | 24        | 17.03               | 17.07                | 17.05                |                     |          |  |  |  |  |
| 5                 | 256QAM     | 12      | 0         | 17.18               | 17.21                | 17.20                |                     |          |  |  |  |  |
| 5                 | 256QAM     | 12      | 7         | 17.13               | 17.17                | 17.12                | 19                  | 4.3      |  |  |  |  |
| 5                 | 256QAM     | 12      | 16        | 17.06               | 17.18                | 17.06                |                     |          |  |  |  |  |
| 5                 | 256QAM     | 25      | 0         | 17.12               | 17.15                | 17.11                |                     |          |  |  |  |  |
| 5                 | 256QAM     | 25      | 0         | 17.12               | 17.15                | 17.11                |                     |          |  |  |  |  |

| Band 41 Ant1 DS16 |
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| Band 42 Part 27Q Ant2 DSI6 |            |         |           |                       |                          |                        |                    |          |  |
|----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|--------------------|----------|--|
| BW (MHz)                   | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Turn-up time (dBm) | MPR (dB) |  |
| Channel                    |            |         |           | 3450                  | 3490                     | 3530                   | Turn-up time (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 42190                 | 42590                    | 42990                  |                    |          |  |
| 20                         | QPSK       | 1       | 0         | 21.94                 | 22.15                    | 21.86                  | 22.6               | 0        |  |
| 20                         | QPSK       | 1       | 48        | 21.90                 | 22.13                    | 21.78                  |                    |          |  |
| 20                         | QPSK       | 1       | 96        | 21.89                 | 22.07                    | 21.86                  |                    |          |  |
| 20                         | QPSK       | 50      | 0         | 21.89                 | 22.07                    | 21.69                  |                    |          |  |
| 20                         | QPSK       | 50      | 24        | 21.63                 | 21.98                    | 21.71                  | 22.6               | 0        |  |
| 20                         | QPSK       | 50      | 50        | 21.84                 | 22.05                    | 21.75                  |                    |          |  |
| 20                         | QPSK       | 100     | 0         | 21.81                 | 21.94                    | 21.63                  |                    |          |  |
| 20                         | HQAM       | 1       | 0         | 21.74                 | 22.05                    | 21.65                  |                    |          |  |
| 20                         | HQAM       | 1       | 48        | 21.77                 | 22.12                    | 21.65                  | 22.6               | 0        |  |
| 20                         | HQAM       | 50      | 0         | 21.84                 | 22.08                    | 21.72                  |                    |          |  |
| 20                         | HQAM       | 50      | 24        | 20.51                 | 20.64                    | 20.47                  |                    |          |  |
| 20                         | HQAM       | 50      | 24        | 20.45                 | 20.58                    | 20.41                  |                    |          |  |
| 20                         | HQAM       | 50      | 50        | 20.39                 | 20.50                    | 20.34                  | 22                 | 0.6      |  |
| 20                         | HQAM       | 100     | 0         | 20.24                 | 20.25                    | 20.24                  |                    |          |  |
| 20                         | HQAM       | 1       | 0         | 20.10                 | 20.17                    | 20.15                  |                    |          |  |
| 20                         | HQAM       | 1       | 48        | 20.08                 | 20.09                    | 20.17                  |                    |          |  |
| 20                         | HQAM       | 1       | 96        | 20.02                 | 20.13                    | 20.12                  | 21                 | 1.6      |  |
| 20                         | HQAM       | 50      | 0         | 19.33                 | 19.35                    | 19.37                  |                    |          |  |
| 20                         | HQAM       | 50      | 24        | 19.20                 | 19.22                    | 19.26                  |                    |          |  |
| 20                         | HQAM       | 50      | 50        | 19.23                 | 19.25                    | 19.25                  |                    |          |  |
| 20                         | HQAM       | 100     | 0         | 19.24                 | 19.29                    | 19.30                  | 19                 | 3.6      |  |
| 20                         | 256QAM     | 1       | 0         | 17.50                 | 17.71                    | 17.38                  |                    |          |  |
| 20                         | 256QAM     | 1       | 48        | 17.37                 | 17.65                    | 17.37                  |                    |          |  |
| 20                         | 256QAM     | 1       | 96        | 17.43                 | 17.63                    | 17.41                  |                    |          |  |
| 20                         | 256QAM     | 50      | 0         | 17.59                 | 17.69                    | 17.37                  | 19                 | 3.6      |  |
| 20                         | 256QAM     | 50      | 24        | 17.40                 | 17.64                    | 17.32                  |                    |          |  |
| 20                         | 256QAM     | 50      | 50        | 17.38                 | 17.64                    | 17.43                  |                    |          |  |
| 20                         | 256QAM     | 100     | 0         | 17.51                 | 17.73                    | 17.35                  |                    |          |  |
| Channel                    |            |         |           | 3455                  | 3495                     | 3535                   | Turn-up time (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3457.5                | 3497.5                   | 3547.5                 |                    |          |  |
| 15                         | QPSK       | 1       | 0         | 21.84                 | 21.95                    | 21.73                  | 22.6               | 0        |  |
| 15                         | QPSK       | 1       | 37        | 21.77                 | 22.03                    | 21.71                  |                    |          |  |
| 15                         | QPSK       | 1       | 74        | 21.83                 | 21.94                    | 21.65                  |                    |          |  |
| 15                         | QPSK       | 36      | 0         | 21.79                 | 21.82                    | 21.63                  |                    |          |  |
| 15                         | QPSK       | 36      | 20        | 21.58                 | 21.91                    | 21.58                  | 22.6               | 0        |  |
| 15                         | QPSK       | 36      | 0         | 21.78                 | 21.84                    | 21.62                  |                    |          |  |
| 15                         | QPSK       | 75      | 0         | 21.68                 | 21.89                    | 21.49                  |                    |          |  |
| 15                         | HQAM       | 1       | 0         | 21.67                 | 21.98                    | 21.52                  |                    |          |  |
| 15                         | HQAM       | 1       | 37        | 21.71                 | 21.87                    | 21.51                  | 22.6               | 0        |  |
| 15                         | HQAM       | 1       | 74        | 21.79                 | 21.94                    | 21.68                  |                    |          |  |
| 15                         | HQAM       | 36      | 0         | 20.44                 | 20.55                    | 20.35                  |                    |          |  |
| 15                         | HQAM       | 36      | 20        | 20.35                 | 20.48                    | 20.29                  |                    |          |  |
| 15                         | HQAM       | 36      | 39        | 20.30                 | 20.47                    | 20.26                  | 22                 | 0.6      |  |
| 15                         | HQAM       | 75      | 0         | 20.15                 | 20.20                    | 20.27                  |                    |          |  |
| 15                         | HQAM       | 1       | 0         | 20.03                 | 20.03                    | 20.12                  |                    |          |  |
| 15                         | HQAM       | 1       | 37        | 20.07                 | 20.11                    | 20.08                  |                    |          |  |
| 15                         | HQAM       | 1       | 74        | 20.16                 | 20.06                    | 20.05                  | 21                 | 1.6      |  |
| 15                         | HQAM       | 36      | 0         | 19.22                 | 19.25                    | 19.25                  |                    |          |  |
| 15                         | HQAM       | 36      | 20        | 19.08                 | 19.14                    | 19.16                  |                    |          |  |
| 15                         | HQAM       | 36      | 39        | 19.14                 | 19.17                    | 19.14                  |                    |          |  |
| 15                         | HQAM       | 75      | 0         | 19.14                 | 19.21                    | 19.22                  | 19                 | 3.6      |  |
| 15                         | 256QAM     | 1       | 0         | 17.37                 | 17.61                    | 17.23                  |                    |          |  |
| 15                         | 256QAM     | 1       | 37        | 17.09                 | 17.53                    | 17.23                  |                    |          |  |
| 15                         | 256QAM     | 1       | 74        | 17.34                 | 17.52                    | 17.28                  |                    |          |  |
| 15                         | 256QAM     | 36      | 0         | 17.48                 | 17.65                    | 17.27                  | 19                 | 3.6      |  |
| 15                         | 256QAM     | 36      | 20        | 17.31                 | 17.55                    | 17.28                  |                    |          |  |
| 15                         | 256QAM     | 36      | 39        | 17.25                 | 17.52                    | 17.35                  |                    |          |  |
| 15                         | 256QAM     | 75      | 0         | 17.40                 | 17.56                    | 17.49                  |                    |          |  |
| Channel                    |            |         |           | 3450                  | 3490                     | 3530                   | Turn-up time (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3452.5                | 3492.5                   | 3542.5                 |                    |          |  |
| 10                         | QPSK       | 1       | 0         | 21.79                 | 22.04                    | 21.72                  | 22.6               | 0        |  |
| 10                         | QPSK       | 1       | 25        | 21.75                 | 22.09                    | 21.64                  |                    |          |  |
| 10                         | QPSK       | 1       | 49        | 21.74                 | 21.98                    | 21.78                  |                    |          |  |
| 10                         | QPSK       | 36      | 0         | 21.75                 | 22.03                    | 21.58                  |                    |          |  |
| 10                         | QPSK       | 25      | 12        | 21.57                 | 21.95                    | 21.65                  | 22.6               | 0        |  |
| 10                         | QPSK       | 25      | 25        | 21.69                 | 21.97                    | 21.69                  |                    |          |  |
| 10                         | QPSK       | 50      | 0         | 21.67                 | 21.82                    | 21.52                  |                    |          |  |
| 10                         | HQAM       | 1       | 0         | 21.82                 | 21.99                    | 21.69                  |                    |          |  |
| 10                         | HQAM       | 1       | 25        | 21.69                 | 22.04                    | 21.98                  | 22.6               | 0        |  |
| 10                         | HQAM       | 1       | 49        | 21.72                 | 21.97                    | 21.62                  |                    |          |  |
| 10                         | HQAM       | 25      | 0         | 20.36                 | 20.55                    | 20.38                  |                    |          |  |
| 10                         | HQAM       | 25      | 12        | 20.32                 | 20.44                    | 20.35                  |                    |          |  |
| 10                         | HQAM       | 25      | 25        | 20.31                 | 20.47                    | 20.22                  | 22                 | 0.6      |  |
| 10                         | HQAM       | 50      | 0         | 20.10                 | 20.18                    | 20.20                  |                    |          |  |
| 10                         | HQAM       | 1       | 0         | 20.00                 | 20.03                    | 20.08                  |                    |          |  |
| 10                         | HQAM       | 1       | 25        | 20.10                 | 20.09                    | 20.04                  |                    |          |  |
| 10                         | HQAM       | 1       | 49        | 20.19                 | 20.13                    | 20.04                  | 21                 | 1.6      |  |
| 10                         | HQAM       | 25      | 0         | 19.21                 | 19.29                    | 19.31                  |                    |          |  |
| 10                         | HQAM       | 25      | 12        | 19.13                 | 19.12                    | 19.17                  |                    |          |  |
| 10                         | HQAM       | 25      | 25        | 19.14                 | 19.15                    | 19.19                  |                    |          |  |
| 10                         | HQAM       | 50      | 0         | 19.12                 | 19.23                    | 19.22                  | 19                 | 3.6      |  |
| 10                         | 256QAM     | 1       | 0         | 17.45                 | 17.67                    | 17.30                  |                    |          |  |
| 10                         | 256QAM     | 1       | 25        | 17.28                 | 17.56                    | 17.27                  |                    |          |  |
| 10                         | 256QAM     | 1       | 49        | 17.29                 | 17.52                    | 17.30                  |                    |          |  |
| 10                         | 256QAM     | 25      | 0         | 17.53                 | 17.63                    | 17.26                  |                    |          |  |
| 10                         | 256QAM     | 25      | 12        | 17.28                 | 17.52                    | 17.26                  | 19                 | 3.6      |  |
| 10                         | 256QAM     | 25      | 25        | 17.29                 | 17.45                    | 17.25                  |                    |          |  |
| 10                         | 256QAM     | 50      | 0         | 17.41                 | 17.62                    | 17.22                  |                    |          |  |
| Channel                    |            |         |           | 3451.5                | 3491.5                   | 3541.5                 | Turn-up time (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3452.5                | 3492.5                   | 3547.5                 |                    |          |  |
| 5                          | QPSK       | 1       | 0         | 21.67                 | 22.04                    | 21.78                  | 22.6               | 0        |  |
| 5                          | QPSK       | 1       | 19        | 21.75                 | 22.05                    | 21.65                  |                    |          |  |
| 5                          | QPSK       | 1       | 24        | 21.78                 | 21.93                    | 21.65                  |                    |          |  |
| 5                          | QPSK       | 12      | 0         | 21.72                 | 22.00                    | 21.63                  |                    |          |  |
| 5                          | QPSK       | 12      | 7         | 21.50                 | 21.92                    | 21.66                  | 22.6               | 0        |  |
| 5                          | QPSK       | 12      | 13        | 21.69                 | 21.94                    | 21.64                  |                    |          |  |
| 5                          | QPSK       | 25      | 0         | 21.67                 | 21.83                    | 21.53                  |                    |          |  |
| 5                          | HQAM       | 1       | 0         | 21.67                 | 21.98                    | 21.65                  |                    |          |  |
| 5                          | HQAM       | 1       | 12        | 21.67                 | 22.05                    | 21.69                  | 22.6               | 0        |  |
| 5                          | HQAM       | 1       | 24        | 21.80                 | 21.95                    | 21.60                  |                    |          |  |
| 5                          | HQAM       | 12      | 0         | 20.43                 | 20.50                    | 20.33                  |                    |          |  |
| 5                          | HQAM       | 12      | 7         | 20.40                 | 20.43                    | 20.30                  |                    |          |  |
| 5                          | HQAM       | 12      | 13        | 20.14                 | 20.47                    | 20.19                  | 22                 | 0.6      |  |
| 5                          | HQAM       | 25      | 0         | 20.11                 | 20.17                    | 20.25                  |                    |          |  |
| 5                          | HQAM       | 1       | 0         | 20.03                 | 20.06                    | 20.12                  |                    |          |  |
| 5                          | HQAM       | 1       | 12        | 20.08                 | 20.07                    | 20.07                  |                    |          |  |
| 5                          | HQAM       | 1       | 24        | 20.12                 | 20.11                    | 20.02                  | 21                 | 1.6      |  |
| 5                          | HQAM       | 12      | 0         | 19.22                 | 19.23                    | 19.29                  |                    |          |  |
| 5                          | HQAM       | 12      | 7         | 19.09                 | 19.15                    | 19.16                  |                    |          |  |
| 5                          | HQAM       | 12      | 13        | 19.16                 | 19.14                    | 19.12                  |                    |          |  |
| 5                          | HQAM       | 25      | 0         | 19.14                 | 19.13                    | 19.16                  | 19                 | 3.6      |  |
| 5                          | 256QAM     | 1       | 0         | 17.41                 | 17.60                    | 17.31                  |                    |          |  |
| 5                          | 256QAM     | 1       | 12        | 17.31                 | 17.51                    | 17.39                  |                    |          |  |
| 5                          | 256QAM     | 1       | 24        | 17.38                 | 17.55                    | 17.31                  |                    |          |  |
| 5                          | 256QAM     | 12      | 0         | 17.49                 | 17.54                    | 17.24                  | 19                 | 3.6      |  |
| 5                          | 256QAM     | 12      | 7         | 17.28                 | 17.49                    | 17.18                  |                    |          |  |
| 5                          | 256QAM     | 12      | 13        | 17.27                 | 17.55                    | 17.31                  |                    |          |  |
| 5                          | 256QAM     | 25      | 0         | 17.45                 | 17.59                    | 17.27                  |                    |          |  |

| Band 7 Ant5 DSI6 |            |         |           |                        |                         |                         |                       |                |  |
|------------------|------------|---------|-----------|------------------------|-------------------------|-------------------------|-----------------------|----------------|--|
| BW (MHz)         | Modulation | RB Size | RB Offset | Power Low<br>Ch./Freq. | Power Mask<br>Ch./Freq. | Power High<br>Ch./Freq. | Time-up<br>Int. (dBm) | Margin<br>(dB) |  |
| Channel          |            |         |           | 20400                  | 21100                   | 21300                   |                       |                |  |
| Frequency (MHz)  |            |         |           | 2050                   | 2035                    | 2050                    |                       |                |  |
| 20               | QPSK       | 1       | 0         | 18.63                  | 18.63                   | 18.60                   | 19.9                  | 0              |  |
| 20               | QPSK       | 1       | 49        | 18.49                  | 18.61                   | 18.61                   |                       |                |  |
| 20               | QPSK       | 1       | 99        | 18.48                  | 18.63                   | 18.63                   | 19.9                  | 0              |  |
| 20               | QPSK       | 50      | 0         | 18.43                  | 18.73                   | 18.60                   |                       |                |  |
| 20               | QPSK       | 50      | 24        | 18.29                  | 18.60                   | 18.45                   | 19.9                  | 0              |  |
| 20               | QPSK       | 50      | 50        | 18.42                  | 18.48                   | 18.48                   |                       |                |  |
| 20               | QPSK       | 100     | 0         | 18.31                  | 18.49                   | 18.45                   | 19.9                  | 0              |  |
| 20               | 16QAM      | 1       | 0         | 18.50                  | 18.58                   | 18.59                   |                       |                |  |
| 20               | 16QAM      | 1       | 49        | 18.30                  | 18.44                   | 18.47                   | 19.9                  | 0              |  |
| 20               | 16QAM      | 1       | 99        | 18.38                  | 18.62                   | 18.49                   |                       |                |  |
| 20               | 16QAM      | 50      | 0         | 18.37                  | 18.54                   | 18.51                   | 19.9                  | 0              |  |
| 20               | 16QAM      | 50      | 24        | 18.19                  | 18.32                   | 18.38                   |                       |                |  |
| 20               | 16QAM      | 50      | 50        | 18.26                  | 18.44                   | 18.48                   | 19.9                  | 0              |  |
| 20               | 16QAM      | 100     | 0         | 18.27                  | 18.39                   | 18.33                   |                       |                |  |
| 20               | 64QAM      | 1       | 0         | 18.46                  | 18.66                   | 18.64                   | 19.9                  | 0              |  |
| 20               | 64QAM      | 1       | 49        | 18.20                  | 18.65                   | 18.29                   |                       |                |  |
| 20               | 64QAM      | 1       | 99        | 18.40                  | 18.53                   | 18.47                   | 19.9                  | 0              |  |
| 20               | 64QAM      | 50      | 0         | 18.39                  | 18.59                   | 18.38                   |                       |                |  |
| 20               | 64QAM      | 50      | 24        | 18.16                  | 18.41                   | 18.24                   | 19.9                  | 0              |  |
| 20               | 64QAM      | 50      | 50        | 18.26                  | 18.47                   | 18.38                   |                       |                |  |
| 20               | 64QAM      | 100     | 0         | 18.26                  | 18.40                   | 18.37                   | 19                    | 0.9            |  |
| 20               | 256QAM     | 1       | 0         | 17.46                  | 17.67                   | 17.66                   |                       |                |  |
| 20               | 256QAM     | 1       | 49        | 17.27                  | 17.61                   | 17.52                   | 19                    | 0.9            |  |
| 20               | 256QAM     | 1       | 99        | 17.25                  | 17.56                   | 17.44                   |                       |                |  |
| 20               | 256QAM     | 50      | 0         | 17.43                  | 17.72                   | 17.67                   | 19                    | 0.9            |  |
| 20               | 256QAM     | 50      | 24        | 17.32                  | 17.69                   | 17.49                   |                       |                |  |
| 20               | 256QAM     | 50      | 50        | 17.31                  | 17.63                   | 17.50                   | 20                    |                |  |
| 20               | 256QAM     | 100     | 0         | 17.25                  | 17.44                   | 17.35                   |                       |                |  |
| Channel          |            |         |           | 20825                  | 21100                   | 21325                   | Time-up<br>Int. (dBm) | Margin<br>(dB) |  |
| Frequency (MHz)  |            |         |           | 2097.5                 | 2035                    | 2060.5                  |                       |                |  |
| 15               | QPSK       | 1       | 0         | 18.55                  | 18.62                   | 18.72                   | 19.9                  | 0              |  |
| 15               | QPSK       | 1       | 37        | 18.34                  | 18.68                   | 18.56                   |                       |                |  |
| 15               | QPSK       | 1       | 74        | 18.39                  | 18.47                   | 18.56                   | 19.9                  | 0              |  |
| 15               | QPSK       | 36      | 0         | 18.31                  | 18.62                   | 18.56                   |                       |                |  |
| 15               | QPSK       | 36      | 20        | 18.20                  | 18.56                   | 18.33                   | 19.9                  | 0              |  |
| 15               | QPSK       | 36      | 36        | 18.28                  | 18.34                   | 18.36                   |                       |                |  |
| 15               | QPSK       | 75      | 0         | 18.27                  | 18.45                   | 18.35                   | 19.9                  | 0              |  |
| 15               | 16QAM      | 1       | 0         | 18.35                  | 18.44                   | 18.50                   |                       |                |  |
| 15               | 16QAM      | 1       | 37        | 18.16                  | 18.32                   | 18.36                   | 19.9                  | 0              |  |
| 15               | 16QAM      | 1       | 74        | 18.25                  | 18.46                   | 18.43                   |                       |                |  |
| 15               | 16QAM      | 36      | 0         | 18.32                  | 18.45                   | 18.43                   | 19.9                  | 0              |  |
| 15               | 16QAM      | 36      | 20        | 18.13                  | 18.18                   | 18.27                   |                       |                |  |
| 15               | 16QAM      | 36      | 36        | 18.13                  | 18.36                   | 18.37                   | 19.9                  | 0              |  |
| 15               | 16QAM      | 75      | 0         | 18.13                  | 18.31                   | 18.28                   |                       |                |  |
| 15               | 64QAM      | 1       | 0         | 18.37                  | 18.51                   | 18.50                   | 19.9                  | 0              |  |
| 15               | 64QAM      | 1       | 37        | 18.12                  | 18.56                   | 18.26                   |                       |                |  |
| 15               | 64QAM      | 1       | 74        | 18.35                  | 18.37                   | 18.41                   | 19.9                  | 0              |  |
| 15               | 64QAM      | 36      | 0         | 18.24                  | 18.52                   | 18.24                   |                       |                |  |
| 15               | 64QAM      | 36      | 20        | 18.08                  | 18.33                   | 18.15                   | 19.9                  | 0              |  |
| 15               | 64QAM      | 36      | 36        | 18.13                  | 18.39                   | 18.25                   |                       |                |  |
| 15               | 64QAM      | 75      | 0         | 18.15                  | 18.26                   | 18.30                   | 19                    | 0.9            |  |
| 15               | 256QAM     | 1       | 0         | 17.60                  | 17.73                   | 17.66                   |                       |                |  |
| 15               | 256QAM     | 1       | 37        | 17.55                  | 17.62                   | 17.55                   | 19                    | 0.9            |  |
| 15               | 256QAM     | 1       | 74        | 17.30                  | 17.69                   | 17.50                   |                       |                |  |
| 15               | 256QAM     | 36      | 0         | 17.47                  | 17.74                   | 17.67                   | 19                    | 0.9            |  |
| 15               | 256QAM     | 36      | 20        | 17.29                  | 17.57                   | 17.58                   |                       |                |  |
| 15               | 256QAM     | 36      | 36        | 17.27                  | 17.65                   | 17.48                   | 20                    |                |  |
| 15               | 256QAM     | 75      | 0         | 17.26                  | 17.67                   | 17.46                   |                       |                |  |
| Channel          |            |         |           | 20900                  | 21100                   | 21400                   | Time-up<br>Int. (dBm) | Margin<br>(dB) |  |
| Frequency (MHz)  |            |         |           | 2095                   | 2035                    | 2095                    |                       |                |  |
| 10               | QPSK       | 1       | 0         | 18.59                  | 18.61                   | 18.66                   | 19.9                  | 0              |  |
| 10               | QPSK       | 1       | 25        | 18.38                  | 18.67                   | 18.50                   |                       |                |  |
| 10               | QPSK       | 1       | 49        | 18.41                  | 18.50                   | 18.56                   | 19.9                  | 0              |  |
| 10               | QPSK       | 25      | 0         | 18.31                  | 18.68                   | 18.49                   |                       |                |  |
| 10               | QPSK       | 25      | 12        | 18.24                  | 18.48                   | 18.41                   | 19.9                  | 0              |  |
| 10               | QPSK       | 25      | 25        | 18.38                  | 18.33                   | 18.38                   |                       |                |  |
| 10               | QPSK       | 50      | 0         | 18.23                  | 18.36                   | 18.35                   | 19.9                  | 0              |  |
| 10               | 16QAM      | 1       | 0         | 18.37                  | 18.46                   | 18.51                   |                       |                |  |
| 10               | 16QAM      | 1       | 25        | 18.14                  | 18.35                   | 18.42                   | 19.9                  | 0              |  |
| 10               | 16QAM      | 1       | 49        | 18.20                  | 18.40                   | 18.36                   |                       |                |  |
| 10               | 16QAM      | 25      | 0         | 18.28                  | 18.41                   | 18.37                   | 19.9                  | 0              |  |
| 10               | 16QAM      | 25      | 12        | 18.08                  | 18.20                   | 18.27                   |                       |                |  |
| 10               | 16QAM      | 25      | 25        | 18.14                  | 18.30                   | 18.44                   | 19.9                  | 0              |  |
| 10               | 16QAM      | 50      | 0         | 18.20                  | 18.27                   | 18.28                   |                       |                |  |
| 10               | 64QAM      | 1       | 0         | 18.38                  | 18.59                   | 18.57                   | 19.9                  | 0              |  |
| 10               | 64QAM      | 1       | 25        | 18.15                  | 18.51                   | 18.31                   |                       |                |  |
| 10               | 64QAM      | 1       | 49        | 18.35                  | 18.40                   | 18.35                   | 19.9                  | 0              |  |
| 10               | 64QAM      | 25      | 0         | 18.35                  | 18.44                   | 18.33                   |                       |                |  |
| 10               | 64QAM      | 25      | 12        | 18.04                  | 18.28                   | 18.13                   | 19.9                  | 0              |  |
| 10               | 64QAM      | 25      | 25        | 18.15                  | 18.35                   | 18.34                   |                       |                |  |
| 10               | 64QAM      | 50      | 0         | 18.14                  | 18.24                   | 18.31                   | 19                    | 0.9            |  |
| 10               | 256QAM     | 1       | 0         | 17.27                  | 17.63                   | 17.50                   |                       |                |  |
| 10               | 256QAM     | 1       | 25        | 17.21                  | 17.63                   | 17.47                   | 19                    | 0.9            |  |
| 10               | 256QAM     | 1       | 49        | 17.14                  | 17.42                   | 17.37                   |                       |                |  |
| 10               | 256QAM     | 25      | 0         | 17.45                  | 17.57                   | 17.50                   | 19                    | 0.9            |  |
| 10               | 256QAM     | 25      | 12        | 17.47                  | 17.51                   | 17.47                   |                       |                |  |
| 10               | 256QAM     | 25      | 25        | 17.13                  | 17.44                   | 17.34                   | 20                    |                |  |
| 10               | 256QAM     | 50      | 0         | 17.43                  | 17.57                   | 17.49                   |                       |                |  |
| Channel          |            |         |           | 20775                  | 21100                   | 21425                   | Time-up<br>Int. (dBm) | Margin<br>(dB) |  |
| Frequency (MHz)  |            |         |           | 2092.5                 | 2035                    | 2097.5                  |                       |                |  |
| 5                | QPSK       | 1       | 0         | 18.53                  | 18.75                   | 18.62                   | 19.9                  | 0              |  |
| 5                | QPSK       | 1       | 12        | 18.43                  | 18.70                   | 18.46                   |                       |                |  |
| 5                | QPSK       | 1       | 24        | 18.32                  | 18.54                   | 18.51                   | 19.9                  | 0              |  |
| 5                | QPSK       | 13      | 0         | 18.23                  | 18.60                   | 18.47                   |                       |                |  |
| 5                | QPSK       | 12      | 7         | 18.23                  | 18.51                   | 18.30                   | 19.9                  | 0              |  |
| 5                | QPSK       | 12      | 13        | 18.26                  | 18.41                   | 18.41                   |                       |                |  |
| 5                | QPSK       | 25      | 0         | 18.26                  | 18.35                   | 18.33                   | 19.9                  | 0              |  |
| 5                | 16QAM      | 1       | 0         | 18.45                  | 18.51                   | 18.51                   |                       |                |  |
| 5                | 16QAM      | 1       | 12        | 18.18                  | 18.40                   | 18.34                   | 19.9                  | 0              |  |
| 5                | 16QAM      | 1       | 24        | 18.33                  | 18.57                   | 18.43                   |                       |                |  |
| 5                | 16QAM      | 12      | 0         | 18.22                  | 18.47                   | 18.42                   | 19.9                  | 0              |  |
| 5                | 16QAM      | 12      | 7         | 18.05                  | 18.22                   | 18.26                   |                       |                |  |
| 5                | 16QAM      | 12      | 13        | 18.11                  | 18.32                   | 18.34                   | 19.9                  | 0              |  |
| 5                | 64QAM      | 1       | 0         | 18.42                  | 18.55                   | 18.56                   |                       |                |  |
| 5                | 64QAM      | 1       | 12        | 18.08                  | 18.57                   | 18.28                   | 19.9                  | 0              |  |
| 5                | 64QAM      | 1       | 24        | 18.27                  | 18.48                   | 18.52                   |                       |                |  |
| 5                | 64QAM      | 12      | 0         | 18.25                  | 18.44                   | 18.24                   | 19.9                  | 0              |  |
| 5                | 64QAM      | 12      | 7         | 18.12                  | 18.27                   | 18.09                   |                       |                |  |
| 5                | 64QAM      | 12      | 13        | 18.22                  | 18.37                   | 18.34                   | 19                    | 0.9            |  |
| 5                | 16QAM      | 25      | 0         | 18.17                  | 18.27                   | 18.22                   |                       |                |  |
| 5                | 256QAM     | 1       | 0         | 17.62                  | 17.94                   | 17.85                   | 19                    | 0.9            |  |
| 5                | 256QAM     | 1       | 12        | 17.37                  | 17.51                   | 17.34                   |                       |                |  |
| 5                | 256QAM     | 1       | 24        | 17.20                  | 17.45                   | 17.43                   | 19                    | 0.9            |  |
| 5                | 256QAM     | 12      | 0         | 17.20                  | 17.62                   | 17.56                   |                       |                |  |
| 5                | 256QAM     | 12      | 7         | 17.16                  | 17.47                   | 17.39                   | 19                    | 0.9            |  |
| 5                | 256QAM     | 12      | 13        | 17.16                  | 17.45                   | 17.37                   |                       |                |  |
| 5                | 256QAM     | 25      | 0         | 17.25                  | 17.58                   | 17.51                   | 20                    |                |  |

| Band 38 Ant5 DS16 |            |         |           |                             |                              |                             |                        |             |  |
|-------------------|------------|---------|-----------|-----------------------------|------------------------------|-----------------------------|------------------------|-------------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Mids<br>Ch. / Freq. | Power<br>Hig<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPE<br>(dB) |  |
| Channel           |            |         |           |                             |                              |                             |                        |             |  |
| Frequency (MHz)   |            |         |           |                             |                              |                             |                        |             |  |
| 20                | QPSK       | 1       | 0         | 20.51                       | 20.57                        | 20.53                       | 21.5                   | 0           |  |
| 20                | QPSK       | 1       | 49        | 20.23                       | 20.32                        | 20.28                       |                        |             |  |
| 20                | QPSK       | 1       | 99        | 20.15                       | 20.32                        | 20.20                       |                        |             |  |
| 20                | QPSK       | 50      | 0         | 20.20                       | 20.36                        | 20.29                       | 21.5                   | 0           |  |
| 20                | QPSK       | 50      | 24        | 20.12                       | 20.15                        | 20.18                       |                        |             |  |
| 20                | QPSK       | 50      | 50        | 20.01                       | 20.22                        | 20.17                       |                        |             |  |
| 20                | QPSK       | 100     | 0         | 19.94                       | 20.04                        | 20.02                       | 21.5                   | 0           |  |
| 20                | 16QAM      | 1       | 0         | 20.39                       | 20.33                        | 20.22                       |                        |             |  |
| 20                | 16QAM      | 1       | 49        | 20.07                       | 20.17                        | 20.21                       |                        |             |  |
| 20                | 16QAM      | 1       | 99        | 20.06                       | 20.19                        | 20.19                       | 21.5                   | 0           |  |
| 20                | 16QAM      | 50      | 0         | 20.22                       | 20.13                        | 20.08                       |                        |             |  |
| 20                | 16QAM      | 50      | 24        | 20.07                       | 20.09                        | 20.15                       |                        |             |  |
| 20                | 16QAM      | 50      | 50        | 19.90                       | 20.09                        | 19.96                       | 21.5                   | 0           |  |
| 20                | 16QAM      | 100     | 0         | 19.92                       | 19.97                        | 20.05                       |                        |             |  |
| 20                | 64QAM      | 1       | 0         | 20.34                       | 20.32                        | 20.20                       |                        |             |  |
| 20                | 64QAM      | 1       | 49        | 20.13                       | 20.22                        | 20.21                       | 21.5                   | 0           |  |
| 20                | 64QAM      | 1       | 99        | 20.05                       | 20.23                        | 20.18                       |                        |             |  |
| 20                | 64QAM      | 50      | 0         | 19.70                       | 19.89                        | 19.75                       |                        |             |  |
| 20                | 64QAM      | 50      | 24        | 19.62                       | 19.17                        | 19.92                       | 21                     | 0.5         |  |
| 20                | 64QAM      | 50      | 50        | 19.77                       | 19.85                        | 19.71                       |                        |             |  |
| 20                | 64QAM      | 100     | 0         | 19.97                       | 19.98                        | 19.84                       |                        |             |  |
| 20                | 256QAM     | 1       | 0         | 17.90                       | 17.89                        | 17.84                       | 19                     | 2.5         |  |
| 20                | 256QAM     | 1       | 49        | 17.71                       | 17.84                        | 17.77                       |                        |             |  |
| 20                | 256QAM     | 1       | 99        | 17.70                       | 17.85                        | 17.78                       |                        |             |  |
| 20                | 256QAM     | 50      | 0         | 17.90                       | 17.93                        | 17.90                       | 19                     | 2.5         |  |
| 20                | 256QAM     | 50      | 24        | 17.70                       | 17.90                        | 17.81                       |                        |             |  |
| 20                | 256QAM     | 50      | 50        | 17.68                       | 17.88                        | 17.77                       |                        |             |  |
| 20                | 256QAM     | 100     | 0         | 17.60                       | 17.88                        | 17.73                       |                        |             |  |
| Channel           |            |         |           |                             |                              |                             |                        |             |  |
| Frequency (MHz)   |            |         |           |                             |                              |                             |                        |             |  |
| 15                | QPSK       | 1       | 0         | 20.38                       | 20.48                        | 20.20                       | 21.5                   | 0           |  |
| 15                | QPSK       | 1       | 37        | 20.08                       | 20.19                        | 20.13                       |                        |             |  |
| 15                | QPSK       | 1       | 74        | 20.07                       | 20.20                        | 20.10                       |                        |             |  |
| 15                | QPSK       | 50      | 0         | 20.13                       | 20.30                        | 20.18                       | 21.5                   | 0           |  |
| 15                | QPSK       | 50      | 20        | 20.00                       | 20.01                        | 20.06                       |                        |             |  |
| 15                | QPSK       | 50      | 39        | 19.88                       | 20.12                        | 20.05                       |                        |             |  |
| 15                | QPSK       | 75      | 0         | 19.80                       | 19.88                        | 19.88                       | 21.5                   | 0           |  |
| 15                | 16QAM      | 1       | 0         | 20.31                       | 20.24                        | 20.18                       |                        |             |  |
| 15                | 16QAM      | 1       | 37        | 19.92                       | 20.12                        | 20.08                       |                        |             |  |
| 15                | 16QAM      | 1       | 74        | 19.94                       | 20.11                        | 20.14                       | 21.5                   | 0           |  |
| 15                | 16QAM      | 50      | 0         | 20.12                       | 20.08                        | 19.90                       |                        |             |  |
| 15                | 16QAM      | 50      | 20        | 19.80                       | 20.05                        | 20.01                       |                        |             |  |
| 15                | 16QAM      | 50      | 39        | 19.70                       | 19.96                        | 19.90                       | 21.5                   | 0           |  |
| 15                | 16QAM      | 75      | 0         | 19.80                       | 19.85                        | 19.93                       |                        |             |  |
| 15                | 64QAM      | 1       | 0         | 20.20                       | 20.21                        | 20.13                       |                        |             |  |
| 15                | 64QAM      | 1       | 37        | 20.00                       | 20.10                        | 20.11                       | 21.5                   | 0           |  |
| 15                | 64QAM      | 1       | 74        | 19.92                       | 20.10                        | 20.03                       |                        |             |  |
| 15                | 64QAM      | 50      | 0         | 19.70                       | 19.80                        | 19.99                       |                        |             |  |
| 15                | 64QAM      | 50      | 20        | 19.62                       | 19.62                        | 19.54                       | 21                     | 0.5         |  |
| 15                | 64QAM      | 50      | 39        | 19.70                       | 19.90                        | 19.58                       |                        |             |  |
| 15                | 64QAM      | 75      | 0         | 19.70                       | 19.92                        | 19.70                       |                        |             |  |
| 15                | 256QAM     | 1       | 0         | 17.62                       | 17.78                        | 17.80                       | 19                     | 2.5         |  |
| 15                | 256QAM     | 1       | 37        | 17.62                       | 17.78                        | 17.67                       |                        |             |  |
| 15                | 256QAM     | 1       | 74        | 17.71                       | 17.80                        | 17.67                       |                        |             |  |
| 15                | 256QAM     | 50      | 0         | 17.70                       | 17.80                        | 17.70                       | 19                     | 2.5         |  |
| 15                | 256QAM     | 50      | 20        | 17.67                       | 17.84                        | 17.70                       |                        |             |  |
| 15                | 256QAM     | 50      | 39        | 17.64                       | 17.72                        | 17.72                       |                        |             |  |
| 15                | 256QAM     | 100     | 0         | 17.61                       | 17.62                        | 17.62                       |                        |             |  |
| Channel           |            |         |           |                             |                              |                             |                        |             |  |
| Frequency (MHz)   |            |         |           |                             |                              |                             |                        |             |  |
| 10                | QPSK       | 1       | 0         | 20.70                       | 20.65                        | 20.65                       | 21.5                   | 0           |  |
| 10                | QPSK       | 1       | 25        | 20.10                       | 20.21                        | 20.19                       |                        |             |  |
| 10                | QPSK       | 1       | 49        | 20.04                       | 20.19                        | 20.12                       |                        |             |  |
| 10                | QPSK       | 25      | 0         | 20.10                       | 20.21                        | 20.14                       | 21.5                   | 0           |  |
| 10                | QPSK       | 25      | 12        | 19.97                       | 20.11                        | 20.03                       |                        |             |  |
| 10                | QPSK       | 25      | 25        | 19.93                       | 20.18                        | 20.08                       |                        |             |  |
| 10                | QPSK       | 50      | 0         | 19.84                       | 19.92                        | 19.90                       | 21.5                   | 0           |  |
| 10                | 16QAM      | 1       | 0         | 20.34                       | 20.20                        | 20.12                       |                        |             |  |
| 10                | 16QAM      | 1       | 25        | 19.98                       | 20.07                        | 20.09                       |                        |             |  |
| 10                | 16QAM      | 1       | 49        | 19.95                       | 20.08                        | 20.11                       | 21.5                   | 0           |  |
| 10                | 16QAM      | 25      | 0         | 20.14                       | 20.06                        | 19.97                       |                        |             |  |
| 10                | 16QAM      | 25      | 12        | 19.91                       | 20.02                        | 20.04                       |                        |             |  |
| 10                | 16QAM      | 25      | 25        | 19.85                       | 19.95                        | 19.96                       | 21.5                   | 0           |  |
| 10                | 16QAM      | 50      | 0         | 19.90                       | 19.91                        | 19.98                       |                        |             |  |
| 10                | 64QAM      | 1       | 0         | 20.18                       | 20.25                        | 20.15                       |                        |             |  |
| 10                | 64QAM      | 1       | 25        | 19.95                       | 20.16                        | 20.07                       | 21.5                   | 0           |  |
| 10                | 64QAM      | 1       | 49        | 20.02                       | 20.11                        | 20.11                       |                        |             |  |
| 10                | 64QAM      | 25      | 0         | 19.69                       | 19.75                        | 19.63                       |                        |             |  |
| 10                | 64QAM      | 25      | 12        | 19.40                       | 19.70                        | 19.54                       | 21                     | 0.5         |  |
| 10                | 64QAM      | 25      | 25        | 19.60                       | 19.78                        | 19.58                       |                        |             |  |
| 10                | 64QAM      | 50      | 0         | 19.84                       | 19.92                        | 19.78                       |                        |             |  |
| 10                | 256QAM     | 1       | 0         | 17.60                       | 17.61                        | 17.63                       | 19                     | 2.5         |  |
| 10                | 256QAM     | 1       | 25        | 17.60                       | 17.72                        | 17.70                       |                        |             |  |
| 10                | 256QAM     | 1       | 49        | 17.73                       | 17.76                        | 17.72                       |                        |             |  |
| 10                | 256QAM     | 25      | 0         | 17.62                       | 17.62                        | 17.70                       | 19                     | 2.5         |  |
| 10                | 256QAM     | 25      | 12        | 17.70                       | 17.83                        | 17.74                       |                        |             |  |
| 10                | 256QAM     | 25      | 25        | 17.64                       | 17.79                        | 17.70                       |                        |             |  |
| 10                | 256QAM     | 50      | 0         | 17.61                       | 17.63                        | 17.66                       |                        |             |  |
| Channel           |            |         |           |                             |                              |                             |                        |             |  |
| Frequency (MHz)   |            |         |           |                             |                              |                             |                        |             |  |
| 5                 | QPSK       | 1       | 0         | 20.44                       | 20.47                        | 20.10                       | 21.5                   | 0           |  |
| 5                 | QPSK       | 1       | 12        | 20.17                       | 20.22                        | 20.22                       |                        |             |  |
| 5                 | QPSK       | 1       | 24        | 20.01                       | 20.28                        | 20.11                       |                        |             |  |
| 5                 | QPSK       | 12      | 0         | 20.00                       | 20.29                        | 20.22                       | 21.5                   | 0           |  |
| 5                 | QPSK       | 12      | 7         | 20.01                       | 20.09                        | 20.04                       |                        |             |  |
| 5                 | QPSK       | 12      | 13        | 19.84                       | 20.15                        | 20.11                       |                        |             |  |
| 5                 | QPSK       | 25      | 0         | 19.82                       | 19.80                        | 19.85                       | 21.5                   | 0           |  |
| 5                 | 16QAM      | 1       | 0         | 20.34                       | 20.25                        | 20.08                       |                        |             |  |
| 5                 | 16QAM      | 1       | 12        | 19.98                       | 20.11                        | 20.10                       |                        |             |  |
| 5                 | 16QAM      | 1       | 24        | 19.95                       | 20.11                        | 20.13                       | 21.5                   | 0           |  |
| 5                 | 16QAM      | 12      | 0         | 20.16                       | 19.98                        | 19.96                       |                        |             |  |
| 5                 | 16QAM      | 12      | 7         | 19.98                       | 20.02                        | 20.12                       |                        |             |  |
| 5                 | 16QAM      | 12      | 13        | 19.70                       | 19.94                        | 19.80                       | 21.5                   | 0           |  |
| 5                 | 64QAM      | 1       | 0         | 20.22                       | 20.19                        | 20.14                       |                        |             |  |
| 5                 | 64QAM      | 1       | 12        | 20.00                       | 20.15                        | 20.12                       |                        |             |  |
| 5                 | 64QAM      | 1       | 24        | 19.90                       | 20.07                        | 20.11                       | 21                     | 0.5         |  |
| 5                 | 64QAM      | 12      | 0         | 19.66                       | 19.75                        | 19.68                       |                        |             |  |
| 5                 | 64QAM      | 12      | 7         | 19.60                       | 19.69                        | 19.52                       |                        |             |  |
| 5                 | 64QAM      | 12      | 13        | 19.60                       | 19.70                        | 19.66                       | 19                     | 2.5         |  |
| 5                 | 256QAM     | 1       | 0         | 17.84                       | 17.79                        | 17.85                       |                        |             |  |
| 5                 | 256QAM     | 1       | 12        | 17.60                       | 17.70                        | 17.70                       |                        |             |  |
| 5                 | 256QAM     | 1       | 24        | 17.67                       | 17.79                        | 17.70                       | 19                     | 2.5         |  |
| 5                 | 256QAM     | 12      | 0         | 17.60                       | 17.83                        | 17.77                       |                        |             |  |
| 5                 | 256QAM     | 12      | 7         | 17.64                       | 17.82                        | 17.70                       |                        |             |  |
| 5                 | 256QAM     | 12      | 13        | 17.67                       | 17.81                        | 17.70                       | 19                     | 2.5         |  |
| 5                 | 256QAM     | 25      | 0         | 17.60                       | 17.78                        | 17.64                       |                        |             |  |

## Uplink CA Power

Full power&DS12 Standalone&Simultaneous

| CA_7C Ant5                            |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 22.41                | 24.00               |
| 21100                                 | 21298       | QPSK       | 1       | 99        | 1       | 0         | 22.70                | 24.00               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 22.53                | 24.00               |

DS13 Standalone&Simultaneous

| CA_7C Ant5                            |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 17.43                | 19.10               |
| 21100                                 | 21298       | QPSK       | 1       | 99        | 1       | 0         | 17.74                | 19.10               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 17.62                | 19.10               |

Full Power

| CA_38C Ant1                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 23.08                | 24.00               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 23.12                | 24.00               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 23.03                | 24.00               |

DS12 Standalone

| CA_38C Ant1                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 18.66                | 19.80               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 18.78                | 19.80               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 18.72                | 19.80               |

Full Power

| CA_41C Ant1                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 23.11                | 24.00               |
| 40185                                 | 40383       | QPSK       | 1       | 99        | 1       | 0         | 23.08                | 24.00               |
| 40620                                 | 40818       | QPSK       | 1       | 99        | 1       | 0         | 23.13                | 24.00               |
| 41055                                 | 41253       | QPSK       | 1       | 99        | 1       | 0         | 23.07                | 24.00               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 23.12                | 24.00               |

DS12 Standalone

| CA_41C Ant1                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 18.71                | 19.80               |
| 40185                                 | 40383       | QPSK       | 1       | 99        | 1       | 0         | 18.73                | 19.80               |
| 40620                                 | 40818       | QPSK       | 1       | 99        | 1       | 0         | 18.86                | 19.80               |
| 41055                                 | 41253       | QPSK       | 1       | 99        | 1       | 0         | 18.75                | 19.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 18.72                | 19.80               |

DS13 Standalone

| CA_38C Ant1                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 19.26                | 20.40               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 19.36                | 20.40               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 19.28                | 20.40               |

DS13 Simultaneous

| CA_38C Ant1                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 15.22                | 16.90               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 15.35                | 16.90               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 15.21                | 16.90               |

DS13 Standalone

| CA_41C Ant1                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 19.28                | 20.40               |
| 40185                                 | 40383       | QPSK       | 1       | 99        | 1       | 0         | 19.46                | 20.40               |
| 40620                                 | 40818       | QPSK       | 1       | 99        | 1       | 0         | 19.48                | 20.40               |
| 41055                                 | 41253       | QPSK       | 1       | 99        | 1       | 0         | 19.21                | 20.40               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 19.19                | 20.40               |

DS13 Simultaneous

| CA_41C Ant1                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 15.38                | 16.90               |
| 40185                                 | 40383       | QPSK       | 1       | 99        | 1       | 0         | 15.42                | 16.90               |
| 40620                                 | 40818       | QPSK       | 1       | 99        | 1       | 0         | 15.48                | 16.90               |
| 41055                                 | 41253       | QPSK       | 1       | 99        | 1       | 0         | 15.31                | 16.90               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 15.26                | 16.90               |

DS16

| CA_7C Ant5                            |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 18.55                | 19.90               |
| 21100                                 | 21298       | QPSK       | 1       | 99        | 1       | 0         | 18.79                | 19.90               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 18.65                | 19.90               |

DS12 Simultaneous

| CA_38C Ant1                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 17.58                | 18.80               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 17.73                | 18.80               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 17.71                | 18.80               |

DS12 Simultaneous

| CA_41C Ant1                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 17.66                | 18.80               |
| 40185                                 | 40383       | QPSK       | 1       | 99        | 1       | 0         | 17.76                | 18.80               |
| 40620                                 | 40818       | QPSK       | 1       | 99        | 1       | 0         | 17.88                | 18.80               |
| 41055                                 | 41253       | QPSK       | 1       | 99        | 1       | 0         | 17.65                | 18.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 17.61                | 18.80               |

DS16

| CA_38C Ant1                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 22.01                | 23.30               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 22.12                | 23.30               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 21.98                | 23.30               |

DS16

| CA_41C Ant1                           |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 22.01                | 23.30               |
| 40185                                 | 40383       | QPSK       | 1       | 99        | 1       | 0         | 22.18                | 23.30               |
| 40620                                 | 40818       | QPSK       | 1       | 99        | 1       | 0         | 22.21                | 23.30               |
| 41055                                 | 41253       | QPSK       | 1       | 99        | 1       | 0         | 22.19                | 23.30               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 22.12                | 23.30               |

DL CA Power

| 2CA DL     |         |      |       |             |         |      |    |           |                          |         |       |             |         |               |                 |                 |
|------------|---------|------|-------|-------------|---------|------|----|-----------|--------------------------|---------|-------|-------------|---------|---------------|-----------------|-----------------|
| CA List    | PDC     |      |       |             |         |      |    |           |                          | SCC     |       |             |         |               | Power           |                 |
|            | LTE     | BW   | BW    | UL          | UL      | UL#  | UL | UL#       | UL                       | LTE     | BW    | DL          | DL      | DL Antenna    | With CA         | Without CA      |
|            | Band    | Ant  | (MHz) | Freq. (MHz) | Channel | Mod. | RB | RB Offset | DL Antenna Configuration | Band    | (MHz) | Freq. (MHz) | Channel | Configuration | Tx. Power (dBm) | Tx. Power (dBm) |
| CA_2C      | Band 2  | Ant0 | 20M   | 1880        | 18900   | QPSK | 1  | 0         | 4xMIMO                   | Band 2  | 20M   | 1980        | 1098    | 4xMIMO        | 22.19           | 22.39           |
| CA_5A-41A  | Band 5  | Ant0 | 10M   | 836.5       | 20525   | QPSK | 1  | 0         |                          | Band 41 | 20M   | 2593        | 40620   |               | 22.44           | 22.66           |
|            | Band 5  | Ant1 | 10M   | 836.5       | 20525   | QPSK | 1  | 0         |                          | Band 41 | 20M   | 2593        | 40620   |               | 21.95           | 22.08           |
| CA_7B      | Band 7  | Ant5 | 15M   | 2535        | 21100   | QPSK | 1  | 0         | 4xMIMO                   | Band 7  | 5M    | 2544        | 3193    | 4xMIMO        | 22.52           | 22.72           |
| CA_7A-26A  | Band 7  | Ant5 | 20M   | 2535        | 21100   | QPSK | 1  | 0         | 4xMIMO                   | Band 26 | 15M   | 878.5       | 6865    |               | 22.61           | 22.72           |
|            | Band 26 | Ant0 | 15M   | 831.5       | 26865   | QPSK | 1  | 0         |                          | Band 7  | 20M   | 2655        | 3100    | 4xMIMO        | 22.27           | 22.43           |
| CA_7A-42A  | Band 7  | Ant5 | 20M   | 2535        | 21100   | QPSK | 1  | 0         | 4xMIMO                   | Band 42 | 20M   | 3500        | 42590   |               | 22.57           | 22.72           |
|            | Band 42 | Ant2 | 20M   | 3500        | 42590   | QPSK | 1  | 0         |                          | Band 7  | 20M   | 2655        | 3100    | 4xMIMO        | 22.58           | 22.72           |
| CA_26A-41A | Band 26 | Ant0 | 15M   | 831.5       | 26865   | QPSK | 1  | 0         |                          | Band 41 | 20M   | 2593        | 40620   |               | 22.33           | 22.43           |
| CA_38C     | Band 38 | Ant1 | 20M   | 2580        | 37650   | QPSK | 1  | 0         |                          | Band 38 | 20M   | 2590        | 36948   |               | 22.29           | 22.41           |
| CA_41C     | Band 41 | Ant1 | 20M   | 2593        | 40620   | QPSK | 1  | 0         |                          | Band 41 | 20M   | 2613        | 40918   |               | 22.20           | 22.39           |
| CA_41A-42A | Band 41 | Ant1 | 20M   | 2593        | 40620   | QPSK | 1  | 0         |                          | Band 42 | 20M   | 3500        | 42590   |               | 22.17           | 22.39           |
|            | Band 42 | Ant2 | 20M   | 3500        | 42590   | QPSK | 1  | 0         |                          | Band 41 | 20M   | 2593        | 40620   |               | 22.53           | 22.72           |
| CA_42C     | Band 42 | Ant2 | 20M   | 3500        | 42590   | QPSK | 1  | 0         |                          | Band 42 | 20M   | 3520        | 42788   |               | 22.51           | 22.72           |
| CA_66B     | Band 66 | Ant0 | 15M   | 1745        | 132322  | QPSK | 1  | 0         | 4xMIMO                   | Band 66 | 5M    | 2154        | 66879   | 4xMIMO        | 22.48           | 22.63           |
| CA_66C     | Band 66 | Ant0 | 20M   | 1745        | 132322  | QPSK | 1  | 0         | 4xMIMO                   | Band 66 | 20M   | 2165        | 66984   | 4xMIMO        | 22.45           | 22.63           |

3CA DL

| 3CA List      | PCC     |     |       |             |         |      |     |        | SCC1                     |         |       |             | SCC2    |                          |         |       | Power       |         |                          |                 |  |                 |
|---------------|---------|-----|-------|-------------|---------|------|-----|--------|--------------------------|---------|-------|-------------|---------|--------------------------|---------|-------|-------------|---------|--------------------------|-----------------|--|-----------------|
|               | LTE     | BW  | BW    | UL          | UL      | Mod. | ULR | UL     | DL Antenna Configuration | LTE     | BW    | DL          | DL      | DL Antenna Configuration | LTE     | BW    | DL          | DL      | DL Antenna Configuration | With CA         |  | Without CA      |
|               | Band    | Ant | (MHz) | Freq. (MHz) | Channel |      | RB  | Offset |                          | Band    | (MHz) | Freq. (MHz) | Channel |                          | Band    | (MHz) | Freq. (MHz) | Channel |                          | Tx. Power (dBm) |  | Tx. Power (dBm) |
| CA_2A-4A-5A   | Band 2  | An0 | 20M   | 1880        | 18900   | QPSK | 1   | 0      | 4x4MIMO                  | Band 4  | 20M   | 2132.5      | 2175    | 4x4MIMO                  | Band 5  | 10M   | 881.5       | 2525    | 4x4MIMO                  | 22.18           |  | 22.39           |
|               | Band 4  | An0 | 20M   | 1732.5      | 20175   | QPSK | 1   | 0      |                          | Band 5  | 10M   | 881.5       | 2525    |                          | Band 2  | 20M   | 1960        | 900     | 4x4MIMO                  | 22.57           |  | 22.69           |
|               | Band 5  | An0 | 10M   | 836.5       | 20525   | QPSK | 1   | 0      |                          | Band 2  | 20M   | 1960        | 900     | 4x4MIMO                  | Band 4  | 20M   | 2132.5      | 2175    |                          | 22.58           |  | 22.66           |
| CA_2A-4A-7A   | Band 5  | An1 | 10M   | 836.5       | 20525   | QPSK | 1   | 0      |                          | Band 2  | 20M   | 1960        | 900     | 4x4MIMO                  | Band 4  | 20M   | 2132.5      | 2175    |                          | 21.96           |  | 22.08           |
|               | Band 2  | An0 | 20M   | 1880        | 18900   | QPSK | 1   | 0      | 4x4MIMO                  | Band 4  | 20M   | 2132.5      | 2175    |                          | Band 7  | 20M   | 2655        | 3100    | 4x4MIMO                  | 22.18           |  | 22.39           |
|               | Band 4  | An0 | 20M   | 1732.5      | 20175   | QPSK | 1   | 0      |                          | Band 7  | 20M   | 2655        | 3100    | 4x4MIMO                  | Band 2  | 20M   | 1960        | 900     | 4x4MIMO                  | 22.56           |  | 22.69           |
| CA_2A-7C      | Band 7  | An5 | 20M   | 2535        | 21100   | QPSK | 1   | 0      | 4x4MIMO                  | Band 2  | 20M   | 1960        | 900     | 4x4MIMO                  | Band 4  | 20M   | 2132.5      | 2175    |                          | 22.55           |  | 22.72           |
|               | Band 2  | An0 | 20M   | 1880        | 18900   | QPSK | 1   | 0      | 4x4MIMO                  | Band 7  | 20M   | 2655        | 3100    | 4x4MIMO                  | Band 7  | 20M   | 2554.8      | 3298    | 4x4MIMO                  | 22.28           |  | 22.39           |
|               | Band 7  | An5 | 20M   | 2535        | 21100   | QPSK | 1   | 0      | 4x4MIMO                  | Band 7  | 20M   | 2554.8      | 3298    | 4x4MIMO                  | Band 2  | 20M   | 1960        | 900     | 4x4MIMO                  | 22.54           |  | 22.72           |
| CA_2A-7A-7A   | Band 7  | An5 | 20M   | 2535        | 21100   | QPSK | 1   | 0      | 4x4MIMO                  | Band 7  | 20M   | 2655        | 3100    | 4x4MIMO                  | Band 7  | 5M    | 2687.5      | 3425    | 4x4MIMO                  | 22.29           |  | 22.39           |
|               | Band 2  | An0 | 20M   | 1880        | 18900   | QPSK | 1   | 0      | 4x4MIMO                  | Band 7  | 5M    | 2687.5      | 3425    | 4x4MIMO                  | Band 2  | 20M   | 1960        | 900     | 4x4MIMO                  | 22.52           |  | 22.72           |
|               | Band 2  | An0 | 20M   | 1880        | 18900   | QPSK | 1   | 0      | 4x4MIMO                  | Band 66 | 20M   | 2155        | 66886   | 4x4MIMO                  | Band 7  | 20M   | 2655        | 3100    | 4x4MIMO                  | 22.26           |  | 22.39           |
| CA_2A-7A-66A  | Band 7  | An5 | 20M   | 2535        | 21100   | QPSK | 1   | 0      | 4x4MIMO                  | Band 2  | 20M   | 1960        | 900     | 4x4MIMO                  | Band 66 | 20M   | 2155        | 66886   | 4x4MIMO                  | 22.58           |  | 22.72           |
|               | Band 66 | An0 | 20M   | 1745        | 132322  | QPSK | 1   | 0      | 4x4MIMO                  | Band 7  | 20M   | 2655        | 3100    | 4x4MIMO                  | Band 2  | 20M   | 1960        | 900     | 4x4MIMO                  | 22.41           |  | 22.63           |
|               | Band 66 | An0 | 20M   | 1880        | 18900   | QPSK | 1   | 0      | 4x4MIMO                  | Band 66 | 20M   | 2155        | 66886   | 4x4MIMO                  | Band 66 | 5M    | 2197.5      | 67311   | 4x4MIMO                  | 22.21           |  | 22.39           |
| CA_2A-66A-66A | Band 66 | An0 | 20M   | 1745        | 132322  | QPSK | 1   | 0      | 4x4MIMO                  | Band 66 | 5M    | 2197.5      | 67311   | 4x4MIMO                  | Band 2  | 20M   | 1960        | 900     | 4x4MIMO                  | 22.48           |  | 22.63           |
|               | Band 4  | An0 | 20M   | 1732.5      | 20175   | QPSK | 1   | 0      |                          | Band 7  | 20M   | 2655        | 3100    | 4x4MIMO                  | Band 7  | 20M   | 2554.8      | 3298    | 4x4MIMO                  | 22.53           |  | 22.69           |
|               | Band 7  | An5 | 20M   | 2535        | 21100   | QPSK | 1   | 0      | 4x4MIMO                  | Band 7  | 20M   | 2554.8      | 3298    | 4x4MIMO                  | Band 4  | 20M   | 2132.5      | 2175    |                          | 22.55           |  | 22.72           |
| CA_5A-7C      | Band 5  | An0 | 10M   | 836.5       | 20525   | QPSK | 1   | 0      |                          | Band 7  | 20M   | 2655        | 3100    | 4x4MIMO                  | Band 7  | 20M   | 2554.8      | 3298    | 4x4MIMO                  | 22.48           |  | 22.66           |
|               | Band 5  | An1 | 10M   | 836.5       | 20525   | QPSK | 1   | 0      |                          | Band 7  | 20M   | 2655        | 3100    | 4x4MIMO                  | Band 7  | 20M   | 2554.8      | 3298    | 4x4MIMO                  | 22.00           |  | 22.08           |
|               | Band 7  | An5 | 20M   | 2535        | 21100   | QPSK | 1   | 0      | 4x4MIMO                  | Band 7  | 20M   | 2554.8      | 3298    | 4x4MIMO                  | Band 5  | 10M   | 881.5       | 2525    |                          | 22.58           |  | 22.72           |
| CA_5A-7A-66A  | Band 5  | An0 | 10M   | 836.5       | 20525   | QPSK | 1   | 0      |                          | Band 66 | 20M   | 2155        | 66886   | 4x4MIMO                  | Band 7  | 20M   | 2655        | 3100    | 4x4MIMO                  | 22.50           |  | 22.66           |
|               | Band 5  | An1 | 10M   | 836.5       | 20525   | QPSK | 1   | 0      |                          | Band 66 | 20M   | 2155        | 66886   | 4x4MIMO                  | Band 7  | 20M   | 2655        | 3100    | 4x4MIMO                  | 21.91           |  | 22.08           |
|               | Band 7  | An5 | 20M   | 2535        | 21100   | QPSK | 1   | 0      | 4x4MIMO                  | Band 5  | 10M   | 881.5       | 2525    |                          | Band 66 | 20M   | 2155        | 66886   | 4x4MIMO                  | 22.58           |  | 22.72           |
| CA_5A-66A-66A | Band 66 | An0 | 20M   | 1745        | 132322  | QPSK | 1   | 0      | 4x4MIMO                  | Band 7  | 20M   | 2655        | 3100    | 4x4MIMO                  | Band 5  | 10M   | 881.5       | 2525    |                          | 22.50           |  | 22.63           |
|               | Band 5  | An0 | 10M   | 836.5       | 20525   | QPSK | 1   | 0      |                          | Band 66 | 20M   | 2155        | 66886   | 4x4MIMO                  | Band 66 | 5M    | 2197.5      | 67311   | 4x4MIMO                  | 22.55           |  | 22.66           |
|               | Band 5  | An1 | 10M   | 836.5       | 20525   | QPSK | 1   | 0      |                          | Band 66 | 20M   | 2155        | 66886   | 4x4MIMO                  | Band 66 | 5M    | 2197.5      | 67311   | 4x4MIMO                  | 21.94           |  | 22.08           |
| CA_7A-66A-66A | Band 66 | An0 | 20M   | 1745        | 132322  | QPSK | 1   | 0      | 4x4MIMO                  | Band 66 | 5M    | 2197.5      | 67311   | 4x4MIMO                  | Band 5  | 10M   | 881.5       | 2525    |                          | 22.46           |  | 22.63           |
|               | Band 7  | An5 | 20M   | 2535        | 21100   | QPSK | 1   | 0      | 4x4MIMO                  | Band 66 | 20M   | 2155        | 66886   | 4x4MIMO                  | Band 66 | 5M    | 2197.5      | 67311   | 4x4MIMO                  | 22.62           |  | 22.72           |
|               | Band 66 | An0 | 20M   | 1745        | 132322  | QPSK | 1   | 0      | 4x4MIMO                  | Band 66 | 5M    | 2197.5      | 67311   | 4x4MIMO                  | Band 7  | 20M   | 2655        | 3100    | 4x4MIMO                  | 22.46           |  | 22.63           |

# Full & Default power

| n2 Ant0         |            |         |           |                          |                             |                           |                        |             |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 372000                   | 376000                      | 380000                    |                        |             |
| Frequency (MHz) |            |         |           | 1860                     | 1880                        | 1900                      |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 22.77                    | 22.89                       | 22.85                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 22.82                    | 22.87                       | 22.75                     | 24.0                   | 0.0         |
| 20              | PI/2 BPSK  | 1       | 104       | 22.73                    | 22.78                       | 22.75                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 22.48                    | 22.54                       | 22.51                     | 23.5                   | 0.5         |
| 20              | PI/2 BPSK  | 50      | 28        | 22.81                    | 22.90                       | 22.77                     | 24.0                   | 0.0         |
| 20              | PI/2 BPSK  | 50      | 56        | 22.43                    | 22.48                       | 22.36                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 22.48                    | 22.53                       | 22.49                     | 23.5                   | 0.5         |
| 20              | QPSK       | 1       | 1         | 22.95                    | 22.98                       | 22.82                     | 24.0                   | 0.0         |
| 20              | QPSK       | 1       | 53        | 22.79                    | 22.84                       | 22.76                     |                        |             |
| 20              | QPSK       | 1       | 104       | 22.72                    | 22.81                       | 22.68                     |                        |             |
| 20              | QPSK       | 50      | 0         | 21.92                    | 22.04                       | 21.95                     | 23.0                   | 1.0         |
| 20              | QPSK       | 50      | 28        | 22.87                    | 22.92                       | 22.84                     | 24.0                   | 0.0         |
| 20              | QPSK       | 50      | 56        | 21.82                    | 21.95                       | 21.80                     |                        |             |
| 20              | QPSK       | 100     | 0         | 21.91                    | 22.02                       | 21.94                     | 23.0                   | 1.0         |
| 20              | 16QAM      | 1       | 1         | 21.80                    | 21.89                       | 21.75                     | 23.0                   | 1.0         |
| 20              | 64QAM      | 1       | 1         | 20.27                    | 20.39                       | 20.32                     | 21.5                   | 2.5         |
| 20              | 256QAM     | 1       | 1         | 18.43                    | 18.52                       | 18.38                     | 19.5                   | 4.5         |
| Channel         |            |         |           | 371500                   | 376000                      | 380500                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1867.5                   | 1880                        | 1902.5                    | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 22.85                    | 22.94                       | 22.70                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 371000                   | 376000                      | 381000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1855                     | 1880                        | 1905                      | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 22.83                    | 22.85                       | 22.78                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 370500                   | 376000                      | 381500                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1852.5                   | 1880                        | 1907.5                    | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 22.88                    | 22.92                       | 22.68                     | 24.0                   | 0.0         |

| n7 Ant1         |            |         |           |                      |                         |                       |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Middle Ch / Freq. | Power High Ch / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 504000               | 507000                  | 510000                | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 2520                 | 2535                    | 2550                  |                     |          |  |
| 40              | PI/2 BPSK  | 1       | 1         | 22.89                | 22.96                   | 22.93                 |                     |          |  |
| 40              | PI/2 BPSK  | 1       | 108       | 22.88                | 22.94                   | 22.89                 | 23.5                | 0.5      |  |
| 40              | PI/2 BPSK  | 1       | 214       | 22.75                | 22.85                   | 22.77                 |                     |          |  |
| 40              | PI/2 BPSK  | 108     | 0         | 22.43                | 22.54                   | 22.39                 |                     |          |  |
| 40              | PI/2 BPSK  | 108     | 54        | 22.81                | 22.87                   | 22.81                 | 23.5                | 0.5      |  |
| 40              | PI/2 BPSK  | 108     | 108       | 22.52                | 22.59                   | 22.51                 |                     |          |  |
| 40              | PI/2 BPSK  | 216     | 0         | 22.53                | 22.65                   | 22.56                 |                     |          |  |
| 40              | QPSK       | 1       | 1         | 22.92                | 22.99                   | 22.86                 | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 22.82                | 22.91                   | 22.78                 |                     |          |  |
| 40              | QPSK       | 1       | 214       | 22.83                | 22.88                   | 22.78                 |                     |          |  |
| 40              | QPSK       | 108     | 0         | 22.09                | 22.16                   | 22.08                 | 23.0                | 1.0      |  |
| 40              | QPSK       | 108     | 54        | 22.85                | 22.98                   | 22.84                 |                     |          |  |
| 40              | QPSK       | 108     | 108       | 22.01                | 22.10                   | 22.03                 |                     |          |  |
| 40              | QPSK       | 216     | 0         | 22.03                | 22.13                   | 22.03                 | 23.0                | 1.0      |  |
| 40              | 16QAM      | 1       | 1         | 21.78                | 21.92                   | 21.88                 |                     |          |  |
| 40              | 64QAM      | 1       | 1         | 20.30                | 20.39                   | 20.28                 |                     |          |  |
| 40              | 256QAM     | 1       | 1         | 18.47                | 18.58                   | 18.48                 | 19.5                |          |  |
| Channel         |            |         |           | 503000               | 507000                  | 511000                | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2515                 | 2535                    | 2555                  |                     |          |  |
| 30              | QPSK       | 1       | 1         | 22.78                | 22.91                   | 22.81                 |                     |          |  |
| Channel         |            |         |           | 502500               | 507000                  | 511500                | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2512.5               | 2535                    | 2557.5                |                     |          |  |
| 25              | QPSK       | 1       | 1         | 22.88                | 22.92                   | 22.71                 |                     |          |  |
| Channel         |            |         |           | 502000               | 507000                  | 512000                | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2510                 | 2535                    | 2560                  |                     |          |  |
| 20              | PI/2 BPSK  | 1       | 1         | 22.86                | 22.95                   | 22.77                 |                     |          |  |
| Channel         |            |         |           | 501500               | 507000                  | 512500                | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2507.5               | 2535                    | 2562.5                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.86                | 22.88                   | 22.78                 |                     |          |  |
| Channel         |            |         |           | 501000               | 507000                  | 513000                | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2505                 | 2535                    | 2565                  |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.77                | 22.90                   | 22.78                 |                     |          |  |
| Channel         |            |         |           | 500500               | 507000                  | 513500                | 24.0                | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2502.5               | 2535                    | 2567.5                |                     |          |  |
| 5               | QPSK       | 1       | 1         | 22.78                | 22.85                   | 22.71                 |                     |          |  |

| n66 Ant1        |            |         |           |                      |                         |                       |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 346000               | 349000                  | 352000                | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1730                 | 1745                    | 1760                  |                     |          |  |
| 40              | PI/2 BPSK  | 1       | 1         | 23.18                | 23.22                   | 23.10                 |                     |          |  |
| 40              | PI/2 BPSK  | 1       | 108       | 23.03                | 23.16                   | 23.05                 | 23.5                | 0.5      |  |
| 40              | PI/2 BPSK  | 1       | 214       | 22.87                | 23.01                   | 22.89                 |                     |          |  |
| 40              | PI/2 BPSK  | 108     | 0         | 22.60                | 22.72                   | 22.66                 |                     |          |  |
| 40              | PI/2 BPSK  | 108     | 54        | 23.10                | 23.13                   | 23.03                 | 24.0                | 0.0      |  |
| 40              | PI/2 BPSK  | 108     | 108       | 22.68                | 22.79                   | 22.64                 |                     |          |  |
| 40              | PI/2 BPSK  | 216     | 0         | 22.58                | 22.72                   | 22.63                 |                     |          |  |
| 40              | QPSK       | 1       | 1         | 23.24                | 23.27                   | 23.19                 | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 23.00                | 23.13                   | 23.09                 |                     |          |  |
| 40              | QPSK       | 1       | 214       | 22.98                | 23.05                   | 22.90                 |                     |          |  |
| 40              | QPSK       | 108     | 0         | 22.22                | 22.28                   | 22.16                 | 23.0                | 1.0      |  |
| 40              | QPSK       | 108     | 54        | 23.11                | 23.17                   | 23.12                 |                     |          |  |
| 40              | QPSK       | 108     | 108       | 22.15                | 22.25                   | 22.11                 |                     |          |  |
| 40              | QPSK       | 216     | 0         | 22.20                | 22.29                   | 22.17                 | 23.0                | 1.0      |  |
| 40              | 16QAM      | 1       | 1         | 22.13                | 22.21                   | 22.13                 |                     |          |  |
| 40              | 64QAM      | 1       | 1         | 20.56                | 20.66                   | 20.58                 |                     |          |  |
| 40              | 256QAM     | 1       | 1         | 18.65                | 18.75                   | 18.70                 | 19.5                |          |  |
| Channel         |            |         |           | 345000               | 349000                  | 353000                | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1725                 | 1745                    | 1765                  |                     |          |  |
| 30              | QPSK       | 1       | 1         | 23.20                | 23.20                   | 23.04                 |                     |          |  |
| Channel         |            |         |           | 344000               | 349000                  | 354000                | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1720                 | 1745                    | 1770                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 23.10                | 23.13                   | 23.15                 |                     |          |  |
| Channel         |            |         |           | 343500               | 349000                  | 354500                | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1717.5               | 1745                    | 1772.5                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 23.12                | 23.19                   | 23.08                 |                     |          |  |
| Channel         |            |         |           | 343000               | 349000                  | 355000                | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1715                 | 1745                    | 1775                  |                     |          |  |
| 10              | QPSK       | 1       | 1         | 23.10                | 23.22                   | 23.04                 |                     |          |  |
| Channel         |            |         |           | 342500               | 349000                  | 355500                | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1712.5               | 1745                    | 1777.5                |                     |          |  |
| 5               | QPSK       | 1       | 1         | 23.19                | 23.14                   | 23.14                 |                     |          |  |

## Part27Q n78 Ant2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         | 22.50                       | 22.54                          | 22.47                        | 24.0                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 137       |                             |                                |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 271       |                             |                                |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             |                                |                              | 23.5                   | 0.5         |
| 100             | PI/2 BPSK  | 135     | 69        |                             |                                |                              | 24.0                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             |                                |                              | 23.5                   | 0.5         |
| 100             | PI/2 BPSK  | 270     | 0         |                             |                                |                              |                        |             |
| 100             | QPSK       | 1       | 1         | 22.68                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 137       | 22.57                       |                                |                              | 24.0                   | 0.0         |
| 100             | QPSK       | 1       | 271       | 22.44                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 0         | 21.70                       |                                |                              | 23.0                   | 1.0         |
| 100             | QPSK       | 135     | 69        | 22.61                       |                                |                              | 24.0                   | 0.0         |
| 100             | QPSK       | 135     | 138       | 21.44                       |                                |                              |                        |             |
| 100             | QPSK       | 270     | 0         | 21.57                       |                                |                              | 23.0                   | 1.0         |
| 100             | 16QAM      | 1       | 1         | 21.69                       |                                |                              | 23.0                   | 1.0         |
| 100             | 64QAM      | 1       | 1         | 20.04                       |                                |                              | 21.5                   | 2.5         |
| 100             | 256QAM     | 1       | 1         | 18.08                       |                                |                              | 19.5                   | 4.5         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      |                        |             |
| 90              | QPSK       | 1       | 1         | 22.50                       | 22.54                          | 22.47                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         |                        |             |
| 80              | QPSK       | 1       | 1         | 22.51                       | 22.62                          | 22.48                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      |                        |             |
| 70              | QPSK       | 1       | 1         | 22.52                       | 22.61                          | 22.51                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      |                        |             |
| 60              | QPSK       | 1       | 1         | 22.56                       | 22.56                          | 22.51                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         |                        |             |
| 50              | QPSK       | 1       | 1         | 22.59                       | 22.53                          | 22.50                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      |                        |             |
| 40              | QPSK       | 1       | 1         | 22.51                       | 22.57                          | 22.48                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      |                        |             |
| 30              | QPSK       | 1       | 1         | 22.58                       | 22.59                          | 22.50                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         |                        |             |
| 20              | QPSK       | 1       | 1         | 22.52                       | 22.63                          | 22.44                        | 24.0                   | 0.0         |

## Part27Q n78 Ant3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 18.81                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 18.82                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 18.73                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 18.70                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 18.77                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 18.72                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 18.73                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 18.97                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 18.83                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 18.78                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 18.70                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 135     | 69        |                             | 18.84                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 18.75                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 270     | 0         |                             | 18.79                          |                              | 20.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 18.77                          |                              | 20.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 18.75                          |                              | 20.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 18.65                          |                              | 20.5                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 18.80                       | 18.72                          | 18.69                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 18.71                       | 18.81                          | 18.67                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 18.67                       | 18.73                          | 18.61                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 18.69                       | 18.75                          | 18.71                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 18.72                       | 18.76                          | 18.76                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 18.74                       | 18.74                          | 18.74                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 18.69                       | 18.82                          | 18.70                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 18.67                       | 18.73                          | 18.74                        | 20.5                   | 0.0         |

| n7 Ant5         |            |         |           |                             |                                |                              |                        |             |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 504000                      | 507000                         | 510000                       | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2520                        | 2535                           | 2550                         |                        |             |
| 40              | PI/2 BPSK  | 1       | 1         | 22.48                       | 22.56                          | 22.41                        | 24.0                   | 0.0         |
| 40              | PI/2 BPSK  | 1       | 108       | 22.56                       | 22.62                          | 22.51                        |                        |             |
| 40              | PI/2 BPSK  | 1       | 214       | 22.51                       | 22.55                          | 22.46                        | 23.5                   | 0.5         |
| 40              | PI/2 BPSK  | 108     | 0         | 22.14                       | 22.18                          | 22.12                        |                        |             |
| 40              | PI/2 BPSK  | 108     | 54        | 22.55                       | 22.59                          | 22.47                        | 24.0                   | 0.0         |
| 40              | PI/2 BPSK  | 108     | 108       | 22.04                       | 22.13                          | 22.02                        |                        |             |
| 40              | PI/2 BPSK  | 216     | 0         | 22.10                       | 22.17                          | 22.13                        | 23.5                   | 0.5         |
| 40              | QPSK       | 1       | 1         | 22.61                       | 22.69                          | 22.64                        |                        |             |
| 40              | QPSK       | 1       | 108       | 22.58                       | 22.67                          | 22.56                        | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 214       | 22.55                       | 22.60                          | 22.50                        |                        |             |
| 40              | QPSK       | 108     | 0         | 21.54                       | 21.68                          | 21.58                        | 23.0                   | 1.0         |
| 40              | QPSK       | 108     | 54        | 22.51                       | 22.57                          | 22.55                        |                        |             |
| 40              | QPSK       | 108     | 108       | 21.45                       | 21.63                          | 21.49                        | 23.0                   | 1.0         |
| 40              | QPSK       | 216     | 0         | 21.60                       | 21.68                          | 21.66                        |                        |             |
| 40              | 16QAM      | 1       | 1         | 21.72                       | 21.75                          | 21.62                        | 23.0                   | 1.0         |
| 40              | 64QAM      | 1       | 1         | 19.97                       | 20.12                          | 20.05                        |                        |             |
| 40              | 256QAM     | 1       | 1         | 18.01                       | 18.06                          | 17.99                        | 19.5                   | 4.5         |
| Channel         |            |         |           | 503000                      | 507000                         | 511000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2515                        | 2535                           | 2555                         |                        |             |
| 30              | QPSK       | 1       | 1         | 22.51                       | 22.65                          | 22.58                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 502500                      | 507000                         | 511500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2512.5                      | 2535                           | 2557.5                       |                        |             |
| 25              | QPSK       | 1       | 1         | 22.49                       | 22.56                          | 22.57                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 502000                      | 507000                         | 512000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2510                        | 2535                           | 2560                         |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 22.49                       | 22.55                          | 22.55                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 501500                      | 507000                         | 512500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2507.5                      | 2535                           | 2562.5                       |                        |             |
| 15              | QPSK       | 1       | 1         | 22.52                       | 22.62                          | 22.50                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 501000                      | 507000                         | 513000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2505                        | 2535                           | 2565                         |                        |             |
| 10              | QPSK       | 1       | 1         | 22.50                       | 22.60                          | 22.58                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 500500                      | 507000                         | 513500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2502.5                      | 2535                           | 2567.5                       |                        |             |
| 5               | QPSK       | 1       | 1         | 22.51                       | 22.59                          | 22.54                        | 24.0                   | 0.0         |

## Part27Q n78 Ant5

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 17.17                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 17.07                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 16.95                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 17.08                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 17.03                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 17.01                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 17.26                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 17.32                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 17.12                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 17.17                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 17.15                          |                              | 17.5                   | 1.0         |
| 100             | QPSK       | 135     | 69        |                             | 17.27                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 17.11                          |                              |                        |             |
| 100             | QPSK       | 270     | 0         |                             | 17.22                          |                              | 17.5                   | 1.0         |
| 100             | 16QAM      | 1       | 1         |                             | 17.20                          |                              | 18.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 17.14                          |                              | 18.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 17.19                          |                              | 18.5                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 17.10                       | 17.19                          | 17.15                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 17.23                       | 17.28                          | 17.06                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 17.23                       | 17.25                          | 17.12                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 17.11                       | 17.21                          | 17.13                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 17.11                       | 17.20                          | 17.10                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 17.12                       | 17.14                          | 17.16                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 17.17                       | 17.17                          | 17.14                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 17.22                       | 17.20                          | 17.17                        | 18.5                   | 0.0         |

## Part27Q n78 Ant7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 19.75                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 19.69                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 19.62                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 19.12                          |                              | 20.0                   | 0.5         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 19.69                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 18.99                          |                              |                        |             |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 19.04                          |                              | 20.0                   | 0.5         |
| 100             | QPSK       | 1       | 1         |                             | 19.81                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 19.78                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 19.67                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 18.71                          |                              | 19.5                   | 1.0         |
| 100             | QPSK       | 135     | 69        |                             | 19.74                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 18.52                          |                              |                        |             |
| 100             | QPSK       | 270     | 0         |                             | 18.56                          |                              | 19.5                   | 1.0         |
| 100             | 16QAM      | 1       | 1         |                             | 18.78                          |                              | 19.5                   | 1.0         |
| 100             | 64QAM      | 1       | 1         |                             | 17.43                          |                              | 18.0                   | 2.5         |
| 100             | 256QAM     | 1       | 1         |                             | 15.28                          |                              | 16.0                   | 4.5         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 19.75                       | 19.75                          | 19.70                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 19.71                       | 19.77                          | 19.78                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 19.78                       | 19.70                          | 19.77                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 19.75                       | 19.68                          | 19.78                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 19.69                       | 19.69                          | 19.74                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 19.71                       | 19.72                          | 19.78                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 19.75                       | 19.73                          | 19.72                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 19.70                       | 19.67                          | 19.70                        | 20.5                   | 0.0         |

# Reduced Power Mode for Sensor Off

| Part27Q n78 Ant2 DSI4 |            |         |           |                       |                          |                        |                     |
|-----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| BW [MHz]              | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel               |            |         |           | 633334                | 3500.01                  |                        |                     |
| Frequency (MHz)       |            |         |           | 21.75                 |                          |                        |                     |
| 100                   | PI/2 BPSK  | 1       | 1         |                       | 21.75                    |                        |                     |
| 100                   | PI/2 BPSK  | 1       | 137       |                       | 21.76                    |                        | 23.0                |
| 100                   | PI/2 BPSK  | 1       | 271       |                       | 21.58                    |                        |                     |
| 100                   | PI/2 BPSK  | 135     | 0         |                       | 21.71                    |                        | 23.0                |
| 100                   | PI/2 BPSK  | 135     | 69        |                       | 21.65                    |                        | 23.0                |
| 100                   | PI/2 BPSK  | 135     | 138       |                       | 21.60                    |                        |                     |
| 100                   | PI/2 BPSK  | 270     | 0         |                       | 21.64                    |                        | 23.0                |
| 100                   | QPSK       | 1       | 1         |                       | 21.79                    |                        |                     |
| 100                   | QPSK       | 1       | 137       |                       | 21.72                    |                        | 23.0                |
| 100                   | QPSK       | 1       | 271       |                       | 21.59                    |                        |                     |
| 100                   | QPSK       | 135     | 0         |                       | 21.64                    |                        | 22.0                |
| 100                   | QPSK       | 135     | 69        |                       | 21.71                    |                        | 23.0                |
| 100                   | QPSK       | 135     | 138       |                       | 21.69                    |                        | 22.0                |
| 100                   | QPSK       | 270     | 0         |                       | 21.65                    |                        |                     |
| 100                   | 16QAM      | 1       | 1         |                       | 21.61                    |                        | 23.0                |
| 100                   | 64QAM      | 1       | 1         |                       | 20.24                    |                        | 21.5                |
| 100                   | 256QAM     | 1       | 1         |                       | 18.28                    |                        | 19.5                |
| Channel               |            |         |           | 633000                | 633334                   | 633668                 | Tune-up limit (dBm) |
| Frequency (MHz)       |            |         |           | 3495                  | 3500.01                  | 3505.02                | MPR (dB)            |
| 90                    | QPSK       | 1       | 1         | 21.42                 | 21.49                    | 21.38                  | 23.0                |
| Channel               |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz)       |            |         |           | 3490.02               | 3500.01                  | 3510                   | MPR (dB)            |
| 80                    | QPSK       | 1       | 1         | 21.35                 | 21.49                    | 21.37                  | 23.0                |
| Channel               |            |         |           | 632334                | 633334                   | 634334                 | Tune-up limit (dBm) |
| Frequency (MHz)       |            |         |           | 3485.01               | 3500.01                  | 3515.01                | MPR (dB)            |
| 70                    | QPSK       | 1       | 1         | 21.43                 | 21.49                    | 21.35                  | 23.0                |
| Channel               |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) |
| Frequency (MHz)       |            |         |           | 3480                  | 3500.01                  | 3520.02                | MPR (dB)            |
| 60                    | QPSK       | 1       | 1         | 21.39                 | 21.49                    | 21.40                  | 23.0                |
| Channel               |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz)       |            |         |           | 3475.02               | 3500.01                  | 3525                   | MPR (dB)            |
| 50                    | QPSK       | 1       | 1         | 21.41                 | 21.44                    | 21.41                  | 23.0                |
| Channel               |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) |
| Frequency (MHz)       |            |         |           | 3470.01               | 3500.01                  | 3530.01                | MPR (dB)            |
| 40                    | QPSK       | 1       | 1         | 21.44                 | 21.50                    | 21.43                  | 23.0                |
| Channel               |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) |
| Frequency (MHz)       |            |         |           | 3465                  | 3500.01                  | 3535.02                | MPR (dB)            |
| 30                    | QPSK       | 1       | 1         | 21.39                 | 21.38                    | 21.38                  | 23.0                |
| Channel               |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz)       |            |         |           | 3460.02               | 3500.01                  | 3540                   | MPR (dB)            |
| 20                    | QPSK       | 1       | 1         | 21.37                 | 21.50                    | 21.43                  | 23.0                |

## Part27Q n78 Ant3 DSI4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PV2 BPSK   | 1       | 1         |                             | 17.00                          |                              | 17.6                   | 0.0         |
| 100             | PV2 BPSK   | 1       | 137       |                             | 17.02                          |                              |                        |             |
| 100             | PV2 BPSK   | 1       | 271       |                             | 16.97                          |                              |                        |             |
| 100             | PV2 BPSK   | 135     | 0         |                             | 16.93                          |                              | 17.6                   | 0.0         |
| 100             | PV2 BPSK   | 135     | 69        |                             | 16.96                          |                              | 17.6                   | 0.0         |
| 100             | PV2 BPSK   | 135     | 138       |                             | 16.88                          |                              | 17.6                   | 0.0         |
| 100             | PV2 BPSK   | 270     | 0         |                             | 16.97                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 17.23                          |                              | 17.6                   | 0.0         |
| 100             | QPSK       | 1       | 137       |                             | 17.04                          |                              |                        |             |
| 100             | QPSK       | 1       | 271       |                             | 17.02                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 16.95                          |                              | 17.6                   | 0.0         |
| 100             | QPSK       | 135     | 69        |                             | 17.05                          |                              | 17.6                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 16.93                          |                              | 17.6                   | 0.0         |
| 100             | QPSK       | 270     | 0         |                             | 17.01                          |                              |                        |             |
| 100             | 16QAM      | 1       | 1         |                             | 17.02                          |                              | 17.6                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 16.99                          |                              | 17.6                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 16.88                          |                              | 17.6                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         |                             | 17.01                          | 16.88                        | 16.84                  | 17.6        |
| Channel         |            |         |           | 634668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         |                             | 16.96                          | 16.94                        | 16.89                  | 17.6        |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         |                             | 16.97                          | 16.87                        | 16.85                  | 17.6        |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         |                             | 17.02                          | 16.88                        | 16.91                  | 17.6        |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         |                             | 16.99                          | 16.96                        | 16.86                  | 17.6        |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         |                             | 16.97                          | 16.94                        | 16.92                  | 17.6        |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         |                             | 17.03                          | 16.91                        | 16.84                  | 17.6        |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         |                             | 17.00                          | 16.86                        | 16.84                  | 17.6        |

# Reduced Power Mode for DSI2 Standalone

| n2 Ant0 DSI2 Standalone |            |         |           |                       |                          |                        |                     |          |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                 |            |         |           | 372000                | 376000                   | 380000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |
| 20                      | PI/2 BPSK  | 1       | 1         | 22.77                 | 22.89                    | 22.85                  | 24.0                | 0.0      |
| 20                      | PI/2 BPSK  | 1       | 53        | 22.82                 | 22.87                    | 22.75                  |                     |          |
| 20                      | PI/2 BPSK  | 1       | 104       | 22.73                 | 22.78                    | 22.75                  |                     |          |
| 20                      | PI/2 BPSK  | 50      | 0         | 22.48                 | 22.54                    | 22.51                  | 23.5                | 0.5      |
| 20                      | PI/2 BPSK  | 50      | 28        | 22.81                 | 22.90                    | 22.77                  | 24.0                | 0.0      |
| 20                      | PI/2 BPSK  | 50      | 56        | 22.43                 | 22.48                    | 22.36                  | 23.5                | 0.5      |
| 20                      | PI/2 BPSK  | 100     | 0         | 22.48                 | 22.53                    | 22.49                  |                     |          |
| 20                      | QPSK       | 1       | 1         | 22.95                 | 22.98                    | 22.82                  |                     |          |
| 20                      | QPSK       | 1       | 53        | 22.79                 | 22.84                    | 22.76                  | 24.0                | 0.0      |
| 20                      | QPSK       | 1       | 104       | 22.72                 | 22.81                    | 22.68                  |                     |          |
| 20                      | QPSK       | 50      | 0         | 21.92                 | 22.04                    | 21.95                  | 23.0                | 1.0      |
| 20                      | QPSK       | 50      | 28        | 22.87                 | 22.92                    | 22.84                  | 24.0                | 0.0      |
| 20                      | QPSK       | 50      | 56        | 21.82                 | 21.95                    | 21.80                  | 23.0                | 1.0      |
| 20                      | QPSK       | 100     | 0         | 21.91                 | 22.02                    | 21.94                  |                     |          |
| 20                      | 16QAM      | 1       | 1         | 21.80                 | 21.89                    | 21.75                  | 23.0                | 1.0      |
| 20                      | 64QAM      | 1       | 1         | 20.27                 | 20.39                    | 20.32                  | 21.5                | 2.5      |
| 20                      | 256QAM     | 1       | 1         | 18.43                 | 18.52                    | 18.38                  | 19.5                | 4.5      |
| Channel                 |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |          |
| 15                      | QPSK       | 1       | 1         | 22.85                 | 22.94                    | 22.70                  | 24.0                | 0.0      |
| Channel                 |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 1855                  | 1880                     | 1905                   |                     |          |
| 10                      | QPSK       | 1       | 1         | 22.83                 | 22.85                    | 22.78                  | 24.0                | 0.0      |
| Channel                 |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |          |
| 5                       | QPSK       | 1       | 1         | 22.88                 | 22.92                    | 22.68                  | 24.0                | 0.0      |

### n7 Ant1 DSI2 Standalone

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 504000                      | 507000                         | 510000                       | 16.9                   | 0.0         |
| Frequency (MHz) |            |         |           | 2520                        | 2535                           | 2550                         |                        |             |
| 40              | PI/2 BPSK  | 1       | 1         | 15.47                       | 15.55                          | 15.51                        | 16.9                   | 0.0         |
| 40              | PI/2 BPSK  | 1       | 108       | 15.37                       | 15.48                          | 15.42                        |                        |             |
| 40              | PI/2 BPSK  | 1       | 214       | 15.31                       | 15.43                          | 15.31                        | 16.9                   | 0.0         |
| 40              | PI/2 BPSK  | 108     | 0         | 15.34                       | 15.46                          | 15.38                        |                        |             |
| 40              | PI/2 BPSK  | 108     | 54        | 15.47                       | 15.52                          | 15.42                        | 16.9                   | 0.0         |
| 40              | PI/2 BPSK  | 108     | 108       | 15.39                       | 15.47                          | 15.36                        |                        |             |
| 40              | PI/2 BPSK  | 216     | 0         | 15.41                       | 15.51                          | 15.38                        | 16.9                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 15.54                       | 15.62                          | 15.59                        |                        |             |
| 40              | QPSK       | 1       | 108       | 15.47                       | 15.55                          | 15.40                        | 16.9                   | 0.0         |
| 40              | QPSK       | 1       | 214       | 15.44                       | 15.52                          | 15.48                        |                        |             |
| 40              | QPSK       | 108     | 0         | 15.33                       | 15.47                          | 15.37                        | 16.9                   | 0.0         |
| 40              | QPSK       | 108     | 54        | 15.46                       | 15.54                          | 15.49                        |                        |             |
| 40              | QPSK       | 108     | 108       | 15.33                       | 15.46                          | 15.31                        | 16.9                   | 0.0         |
| 40              | QPSK       | 216     | 0         | 15.42                       | 15.48                          | 15.40                        |                        |             |
| 40              | 16QAM      | 1       | 1         | 15.47                       | 15.53                          | 15.45                        | 16.9                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 15.49                       | 15.59                          | 15.46                        |                        |             |
| 40              | 256QAM     | 1       | 1         | 15.46                       | 15.57                          | 15.43                        | 16.9                   | 0.0         |
| Channel         |            |         |           | 503000                      | 507000                         | 511000                       |                        |             |
| Frequency (MHz) |            |         |           | 2515                        | 2535                           | 2555                         | 16.9                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 15.50                       | 15.50                          | 15.44                        |                        |             |
| Channel         |            |         |           | 502500                      | 507000                         | 511500                       | 16.9                   | 0.0         |
| Frequency (MHz) |            |         |           | 2512.5                      | 2535                           | 2557.5                       |                        |             |
| 25              | QPSK       | 1       | 1         | 15.49                       | 15.50                          | 15.50                        | 16.9                   | 0.0         |
| Channel         |            |         |           | 502000                      | 507000                         | 512000                       |                        |             |
| Frequency (MHz) |            |         |           | 2510                        | 2535                           | 2560                         | 16.9                   | 0.0         |
| 20              | PI/2 BPSK  | 1       | 1         | 15.47                       | 15.59                          | 15.49                        |                        |             |
| Channel         |            |         |           | 501500                      | 507000                         | 512500                       | 16.9                   | 0.0         |
| Frequency (MHz) |            |         |           | 2507.5                      | 2535                           | 2562.5                       |                        |             |
| 15              | QPSK       | 1       | 1         | 15.39                       | 15.50                          | 15.52                        | 16.9                   | 0.0         |
| Channel         |            |         |           | 501000                      | 507000                         | 513000                       |                        |             |
| Frequency (MHz) |            |         |           | 2505                        | 2535                           | 2565                         | 16.9                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 15.48                       | 15.58                          | 15.50                        |                        |             |
| Channel         |            |         |           | 500500                      | 507000                         | 513500                       | 16.9                   | 0.0         |
| Frequency (MHz) |            |         |           | 2502.5                      | 2535                           | 2567.5                       |                        |             |
| 5               | QPSK       | 1       | 1         | 15.41                       | 15.58                          | 15.44                        | 16.9                   | 0.0         |

### n66 Ant1 DSI2 Standalone

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 346000                      | 349000                         | 352000                       | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1730                        | 1745                           | 1760                         |                        |             |
| 40              | PI/2 BPSK  | 1       | 1         | 23.18                       | 23.22                          | 23.10                        | 24.0                   | 0.0         |
| 40              | PI/2 BPSK  | 1       | 108       | 23.03                       | 23.16                          | 23.05                        |                        |             |
| 40              | PI/2 BPSK  | 1       | 214       | 22.87                       | 23.01                          | 22.89                        | 23.5                   | 0.5         |
| 40              | PI/2 BPSK  | 108     | 0         | 22.60                       | 22.72                          | 22.66                        |                        |             |
| 40              | PI/2 BPSK  | 108     | 54        | 23.10                       | 23.13                          | 23.03                        | 23.5                   | 0.5         |
| 40              | PI/2 BPSK  | 108     | 108       | 22.68                       | 22.79                          | 22.64                        |                        |             |
| 40              | PI/2 BPSK  | 216     | 0         | 22.58                       | 22.72                          | 22.63                        | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 23.24                       | 23.27                          | 23.19                        |                        |             |
| 40              | QPSK       | 1       | 108       | 23.00                       | 23.13                          | 23.09                        | 23.0                   | 1.0         |
| 40              | QPSK       | 1       | 214       | 22.98                       | 23.05                          | 22.90                        |                        |             |
| 40              | QPSK       | 108     | 0         | 22.22                       | 22.28                          | 22.16                        | 24.0                   | 0.0         |
| 40              | QPSK       | 108     | 54        | 23.11                       | 23.17                          | 23.12                        |                        |             |
| 40              | QPSK       | 108     | 108       | 22.15                       | 22.25                          | 22.11                        | 23.0                   | 1.0         |
| 40              | QPSK       | 216     | 0         | 22.20                       | 22.29                          | 22.17                        |                        |             |
| 40              | 16QAM      | 1       | 1         | 22.13                       | 22.21                          | 22.13                        | 21.5                   | 2.5         |
| 40              | 64QAM      | 1       | 1         | 20.56                       | 20.66                          | 20.58                        |                        |             |
| 40              | 256QAM     | 1       | 1         | 18.65                       | 18.75                          | 18.70                        | 19.5                   | 4.5         |
| Channel         |            |         |           | 345000                      | 349000                         | 353000                       |                        |             |
| Frequency (MHz) |            |         |           | 1725                        | 1745                           | 1765                         | 24.0                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 23.20                       | 23.20                          | 23.04                        |                        |             |
| Channel         |            |         |           | 344000                      | 349000                         | 354000                       | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1720                        | 1745                           | 1770                         |                        |             |
| 20              | QPSK       | 1       | 1         | 23.10                       | 23.13                          | 23.15                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 343500                      | 349000                         | 354500                       |                        |             |
| Frequency (MHz) |            |         |           | 1717.5                      | 1745                           | 1772.5                       | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 23.12                       | 23.19                          | 23.08                        |                        |             |
| Channel         |            |         |           | 343000                      | 349000                         | 355000                       | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1715                        | 1745                           | 1775                         |                        |             |
| 10              | QPSK       | 1       | 1         | 23.10                       | 23.22                          | 23.04                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 342500                      | 349000                         | 355500                       |                        |             |
| Frequency (MHz) |            |         |           | 1712.5                      | 1745                           | 1777.5                       | 24.0                   | 0.0         |
| 5               | QPSK       | 1       | 1         | 23.19                       | 23.14                          | 23.14                        |                        |             |

### Part27Q n78 Ant2 DSI2 Standalone

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         | 16.18                       |                                |                              | 17.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 137       | 16.15                       |                                |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 271       | 16.12                       |                                |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         | 16.08                       |                                |                              | 17.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        | 16.12                       |                                |                              | 17.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       | 16.05                       |                                |                              | 17.5                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         | 16.07                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 1         | 16.23                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 137       | 16.04                       |                                |                              | 17.5                   | 0.0         |
| 100             | QPSK       | 1       | 271       | 16.04                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 0         | 16.12                       |                                |                              | 17.5                   | 0.0         |
| 100             | QPSK       | 135     | 69        | 16.14                       |                                |                              | 17.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       | 15.98                       |                                |                              |                        |             |
| 100             | QPSK       | 270     | 0         | 16.13                       |                                |                              | 17.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 16.06                       |                                |                              | 17.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 16.04                       |                                |                              | 17.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 16.02                       |                                |                              | 17.5                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      |                        |             |
| 90              | QPSK       | 1       | 1         | 15.98                       | 16.07                          | 15.99                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         |                        |             |
| 80              | QPSK       | 1       | 1         | 16.00                       | 16.09                          | 15.99                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      |                        |             |
| 70              | QPSK       | 1       | 1         | 15.97                       | 16.09                          | 15.99                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      |                        |             |
| 60              | QPSK       | 1       | 1         | 16.00                       | 16.10                          | 15.95                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         |                        |             |
| 50              | QPSK       | 1       | 1         | 15.97                       | 16.07                          | 15.96                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      |                        |             |
| 40              | QPSK       | 1       | 1         | 16.01                       | 16.14                          | 15.97                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      |                        |             |
| 30              | QPSK       | 1       | 1         | 16.02                       | 16.12                          | 15.97                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         |                        |             |
| 20              | QPSK       | 1       | 1         | 16.04                       | 16.05                          | 15.96                        | 17.5                   | 0.0         |

## Part27Q n78 Ant3 DSI2 Standalone

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 18.81                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 18.82                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 18.73                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 18.70                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 18.77                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 18.72                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 18.73                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 18.97                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 18.83                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 18.78                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 18.70                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 135     | 69        |                             | 18.84                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 18.75                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 270     | 0         |                             | 18.79                          |                              | 20.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 18.77                          |                              | 20.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 18.75                          |                              | 20.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 18.65                          |                              | 20.5                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 18.80                       | 18.72                          | 18.69                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 18.71                       | 18.81                          | 18.67                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 18.67                       | 18.73                          | 18.61                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 18.69                       | 18.75                          | 18.71                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 18.72                       | 18.76                          | 18.76                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 18.74                       | 18.74                          | 18.74                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 18.69                       | 18.82                          | 18.70                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 18.67                       | 18.73                          | 18.74                        | 20.5                   | 0.0         |

| n7 Ant5 DSI2 Standalone |            |         |           |                             |                                |                              |                        |             |
|-------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel                 |            |         |           | 504000                      | 507000                         | 510000                       | 24.0                   | 0.0         |
| Frequency (MHz)         |            |         |           | 2520                        | 2535                           | 2550                         |                        |             |
| 40                      | PI/2 BPSK  | 1       | 1         | 22.48                       | 22.56                          | 22.41                        | 24.0                   | 0.0         |
| 40                      | PI/2 BPSK  | 1       | 108       | 22.56                       | 22.62                          | 22.51                        |                        |             |
| 40                      | PI/2 BPSK  | 1       | 214       | 22.51                       | 22.55                          | 22.46                        | 23.5                   | 0.5         |
| 40                      | PI/2 BPSK  | 108     | 0         | 22.14                       | 22.18                          | 22.12                        |                        |             |
| 40                      | PI/2 BPSK  | 108     | 54        | 22.55                       | 22.59                          | 22.47                        | 24.0                   | 0.0         |
| 40                      | PI/2 BPSK  | 108     | 108       | 22.04                       | 22.13                          | 22.02                        |                        |             |
| 40                      | PI/2 BPSK  | 216     | 0         | 22.10                       | 22.17                          | 22.13                        | 23.5                   | 0.5         |
| 40                      | QPSK       | 1       | 1         | 22.61                       | 22.69                          | 22.64                        |                        |             |
| 40                      | QPSK       | 1       | 108       | 22.58                       | 22.67                          | 22.56                        | 24.0                   | 0.0         |
| 40                      | QPSK       | 1       | 214       | 22.55                       | 22.60                          | 22.50                        |                        |             |
| 40                      | QPSK       | 108     | 0         | 21.54                       | 21.68                          | 21.58                        | 23.0                   | 1.0         |
| 40                      | QPSK       | 108     | 54        | 22.51                       | 22.57                          | 22.55                        |                        |             |
| 40                      | QPSK       | 108     | 108       | 21.45                       | 21.63                          | 21.49                        | 23.0                   | 1.0         |
| 40                      | QPSK       | 216     | 0         | 21.60                       | 21.68                          | 21.66                        |                        |             |
| 40                      | 16QAM      | 1       | 1         | 21.72                       | 21.75                          | 21.62                        | 23.0                   | 1.0         |
| 40                      | 64QAM      | 1       | 1         | 19.97                       | 20.12                          | 20.05                        |                        |             |
| 40                      | 256QAM     | 1       | 1         | 18.01                       | 18.06                          | 17.99                        | 19.5                   | 4.5         |
| Channel                 |            |         |           | 503000                      | 507000                         | 511000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)         |            |         |           | 2515                        | 2535                           | 2555                         |                        |             |
| 30                      | QPSK       | 1       | 1         | 22.51                       | 22.65                          | 22.58                        | 24.0                   | 0.0         |
| Channel                 |            |         |           | 502500                      | 507000                         | 511500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)         |            |         |           | 2512.5                      | 2535                           | 2557.5                       |                        |             |
| 25                      | QPSK       | 1       | 1         | 22.49                       | 22.56                          | 22.57                        | 24.0                   | 0.0         |
| Channel                 |            |         |           | 502000                      | 507000                         | 512000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)         |            |         |           | 2510                        | 2535                           | 2560                         |                        |             |
| 20                      | PI/2 BPSK  | 1       | 1         | 22.49                       | 22.55                          | 22.55                        | 24.0                   | 0.0         |
| Channel                 |            |         |           | 501500                      | 507000                         | 512500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)         |            |         |           | 2507.5                      | 2535                           | 2562.5                       |                        |             |
| 15                      | QPSK       | 1       | 1         | 22.52                       | 22.62                          | 22.50                        | 24.0                   | 0.0         |
| Channel                 |            |         |           | 501000                      | 507000                         | 513000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)         |            |         |           | 2505                        | 2535                           | 2565                         |                        |             |
| 10                      | QPSK       | 1       | 1         | 22.50                       | 22.60                          | 22.58                        | 24.0                   | 0.0         |
| Channel                 |            |         |           | 500500                      | 507000                         | 513500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)         |            |         |           | 2502.5                      | 2535                           | 2567.5                       |                        |             |
| 5                       | QPSK       | 1       | 1         | 22.51                       | 22.59                          | 22.54                        | 24.0                   | 0.0         |

## Part27Q n78 Ant5 DSI2 Standalone

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 17.17                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 17.07                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 16.95                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 17.08                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 17.03                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 17.01                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 17.26                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 17.32                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 17.12                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 17.17                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 17.15                          |                              | 17.5                   | 1.0         |
| 100             | QPSK       | 135     | 69        |                             | 17.27                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 17.11                          |                              | 17.5                   | 1.0         |
| 100             | QPSK       | 270     | 0         |                             | 17.22                          |                              |                        |             |
| 100             | 16QAM      | 1       | 1         |                             | 17.20                          |                              | 18.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 17.14                          |                              | 18.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 17.19                          |                              | 18.5                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      |                        |             |
| 90              | QPSK       | 1       | 1         | 17.10                       | 17.19                          | 17.15                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         |                        |             |
| 80              | QPSK       | 1       | 1         | 17.23                       | 17.28                          | 17.06                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      |                        |             |
| 70              | QPSK       | 1       | 1         | 17.23                       | 17.25                          | 17.12                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      |                        |             |
| 60              | QPSK       | 1       | 1         | 17.11                       | 17.21                          | 17.13                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         |                        |             |
| 50              | QPSK       | 1       | 1         | 17.11                       | 17.20                          | 17.10                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      |                        |             |
| 40              | QPSK       | 1       | 1         | 17.12                       | 17.14                          | 17.16                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      |                        |             |
| 30              | QPSK       | 1       | 1         | 17.17                       | 17.17                          | 17.14                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         |                        |             |
| 20              | QPSK       | 1       | 1         | 17.22                       | 17.20                          | 17.17                        | 18.5                   | 0.0         |

### Part27Q n78 Ant7 DSI2 Standalone

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 633334                      |                                |                              | 20.5                   | 0.0         |
| Frequency (MHz) |            |         |           | 3500.01                     |                                |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         | 19.75                       |                                |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       | 19.69                       |                                |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 271       | 19.62                       |                                |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         | 19.12                       |                                |                              | 20.0                   | 0.5         |
| 100             | PI/2 BPSK  | 135     | 69        | 19.69                       |                                |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       | 18.99                       |                                |                              | 20.0                   | 0.5         |
| 100             | PI/2 BPSK  | 270     | 0         | 19.04                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 1         | 19.81                       |                                |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 1       | 137       | 19.78                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 271       | 19.67                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 0         | 18.71                       |                                |                              | 19.5                   | 1.0         |
| 100             | QPSK       | 135     | 69        | 19.74                       |                                |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       | 18.52                       |                                |                              | 19.5                   | 1.0         |
| 100             | QPSK       | 270     | 0         | 18.56                       |                                |                              |                        |             |
| 100             | 16QAM      | 1       | 1         | 18.78                       |                                |                              | 19.5                   | 1.0         |
| 100             | 64QAM      | 1       | 1         | 17.43                       |                                |                              | 18.0                   | 2.5         |
| 100             | 256QAM     | 1       | 1         | 15.28                       |                                |                              | 16.0                   | 4.5         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 19.75                       | 19.75                          | 19.70                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 19.71                       | 19.77                          | 19.78                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 19.76                       | 19.70                          | 19.77                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 19.75                       | 19.68                          | 19.78                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 19.69                       | 19.69                          | 19.74                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 19.71                       | 19.72                          | 19.78                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 19.75                       | 19.73                          | 19.72                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 19.70                       | 19.67                          | 19.70                        | 20.5                   | 0.0         |

# Reduced Power Mode for DSI2 Simultaneous

| n2 Ant0 DSI2 Simultaneous |            |         |           |                       |                          |                        |                     |          |
|---------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]                  | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                   |            |         |           | 372000                | 376000                   | 380000                 | 24.0                | 0.0      |
| Frequency (MHz)           |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |
| 20                        | PI/2 BPSK  | 1       | 1         | 22.77                 | 22.89                    | 22.85                  |                     |          |
| 20                        | PI/2 BPSK  | 1       | 53        | 22.82                 | 22.87                    | 22.75                  | 23.5                | 0.5      |
| 20                        | PI/2 BPSK  | 1       | 104       | 22.73                 | 22.78                    | 22.75                  |                     |          |
| 20                        | PI/2 BPSK  | 50      | 0         | 22.48                 | 22.54                    | 22.51                  |                     |          |
| 20                        | PI/2 BPSK  | 50      | 28        | 22.81                 | 22.90                    | 22.77                  | 24.0                | 0.0      |
| 20                        | PI/2 BPSK  | 50      | 56        | 22.43                 | 22.48                    | 22.36                  | 23.5                | 0.5      |
| 20                        | PI/2 BPSK  | 100     | 0         | 22.48                 | 22.53                    | 22.49                  |                     |          |
| 20                        | QPSK       | 1       | 1         | 22.95                 | 22.98                    | 22.82                  |                     |          |
| 20                        | QPSK       | 1       | 53        | 22.79                 | 22.84                    | 22.76                  | 24.0                | 0.0      |
| 20                        | QPSK       | 1       | 104       | 22.72                 | 22.81                    | 22.68                  |                     |          |
| 20                        | QPSK       | 50      | 0         | 21.92                 | 22.04                    | 21.95                  | 23.0                | 1.0      |
| 20                        | QPSK       | 50      | 28        | 22.87                 | 22.92                    | 22.84                  | 24.0                | 0.0      |
| 20                        | QPSK       | 50      | 56        | 21.82                 | 21.95                    | 21.80                  | 23.0                | 1.0      |
| 20                        | QPSK       | 100     | 0         | 21.91                 | 22.02                    | 21.94                  |                     |          |
| 20                        | 16QAM      | 1       | 1         | 21.80                 | 21.89                    | 21.75                  | 23.0                | 1.0      |
| 20                        | 64QAM      | 1       | 1         | 20.27                 | 20.39                    | 20.32                  | 21.5                | 2.5      |
| 20                        | 256QAM     | 1       | 1         | 18.43                 | 18.52                    | 18.38                  | 19.5                | 4.5      |
| Channel                   |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)           |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |          |
| 15                        | QPSK       | 1       | 1         | 22.85                 | 22.94                    | 22.70                  | 24.0                | 0.0      |
| Channel                   |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)           |            |         |           | 1855                  | 1880                     | 1905                   |                     |          |
| 10                        | QPSK       | 1       | 1         | 22.83                 | 22.85                    | 22.78                  | 24.0                | 0.0      |
| Channel                   |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)           |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |          |
| 5                         | QPSK       | 1       | 1         | 22.88                 | 22.92                    | 22.68                  | 24.0                | 0.0      |

| n7 Ant1 DSI2 Simultaneous |            |         |           |                       |                          |                        |                     |          |  |
|---------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                  | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                   |            |         |           | 504000                | 507000                   | 510000                 | 15.9                | 0.0      |  |
| Frequency (MHz)           |            |         |           | 2520                  | 2535                     | 2550                   |                     |          |  |
| 40                        | PI/2 BPSK  | 1       | 1         | 14.51                 | 14.56                    | 14.48                  | 15.9                | 0.0      |  |
| 40                        | PI/2 BPSK  | 1       | 108       | 14.16                 | 14.50                    | 14.23                  |                     |          |  |
| 40                        | PI/2 BPSK  | 1       | 214       | 14.46                 | 14.49                    | 14.15                  | 15.9                | 0.0      |  |
| 40                        | PI/2 BPSK  | 108     | 0         | 14.29                 | 14.60                    | 14.33                  |                     |          |  |
| 40                        | PI/2 BPSK  | 108     | 54        | 14.22                 | 14.39                    | 14.16                  | 15.9                | 0.0      |  |
| 40                        | PI/2 BPSK  | 108     | 108       | 14.09                 | 14.29                    | 14.18                  |                     |          |  |
| 40                        | PI/2 BPSK  | 216     | 0         | 14.25                 | 14.38                    | 14.19                  | 15.9                | 0.0      |  |
| 40                        | QPSK       | 1       | 1         | 14.65                 | 14.85                    | 14.65                  |                     |          |  |
| 40                        | QPSK       | 1       | 108       | 14.42                 | 14.67                    | 14.41                  | 15.9                | 0.0      |  |
| 40                        | QPSK       | 1       | 214       | 14.52                 | 14.55                    | 14.38                  |                     |          |  |
| 40                        | QPSK       | 108     | 0         | 14.56                 | 14.71                    | 14.62                  | 15.9                | 0.0      |  |
| 40                        | QPSK       | 108     | 54        | 14.46                 | 14.74                    | 14.33                  |                     |          |  |
| 40                        | QPSK       | 108     | 108       | 14.39                 | 14.59                    | 14.44                  | 15.9                | 0.0      |  |
| 40                        | QPSK       | 216     | 0         | 14.49                 | 14.62                    | 14.39                  |                     |          |  |
| 40                        | 16QAM      | 1       | 1         | 14.43                 | 14.43                    | 14.33                  | 15.9                | 0.0      |  |
| 40                        | 64QAM      | 1       | 1         | 14.62                 | 14.60                    | 14.61                  |                     |          |  |
| 40                        | 256QAM     | 1       | 1         | 14.43                 | 14.67                    | 14.44                  | 15.9                | 0.0      |  |
| Channel                   |            |         |           | 503000                | 507000                   | 511000                 |                     |          |  |
| Frequency (MHz)           |            |         |           | 2515                  | 2535                     | 2555                   | 15.9                | 0.0      |  |
| 30                        | QPSK       | 1       | 1         | 14.21                 | 14.57                    | 14.24                  |                     | 0.0      |  |
| Channel                   |            |         |           | 502500                | 507000                   | 511500                 | 15.9                | 0.0      |  |
| Frequency (MHz)           |            |         |           | 2512.5                | 2535                     | 2557.5                 |                     |          |  |
| 25                        | QPSK       | 1       | 1         | 14.17                 | 14.52                    | 14.27                  | 15.9                | 0.0      |  |
| Channel                   |            |         |           | 502000                | 507000                   | 512000                 |                     | 0.0      |  |
| Frequency (MHz)           |            |         |           | 2510                  | 2535                     | 2560                   | 15.9                | 0.0      |  |
| 20                        | PI/2 BPSK  | 1       | 1         | 14.19                 | 14.50                    | 14.25                  |                     | 0.0      |  |
| Channel                   |            |         |           | 501500                | 507000                   | 512500                 | 15.9                | 0.0      |  |
| Frequency (MHz)           |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |  |
| 15                        | QPSK       | 1       | 1         | 14.16                 | 14.49                    | 14.26                  | 15.9                | 0.0      |  |
| Channel                   |            |         |           | 501000                | 507000                   | 513000                 |                     | 0.0      |  |
| Frequency (MHz)           |            |         |           | 2505                  | 2535                     | 2565                   | 15.9                | 0.0      |  |
| 10                        | QPSK       | 1       | 1         | 14.22                 | 14.51                    | 14.31                  |                     | 0.0      |  |
| Channel                   |            |         |           | 500500                | 507000                   | 513500                 | 15.9                | 0.0      |  |
| Frequency (MHz)           |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |          |  |
| 5                         | QPSK       | 1       | 1         | 14.18                 | 14.54                    | 14.24                  | 15.9                | 0.0      |  |
| Channel                   |            |         |           | 500000                | 507000                   | 514000                 |                     |          |  |
| Frequency (MHz)           |            |         |           | 2500                  | 2535                     | 2570                   |                     |          |  |

| n66 Ant1 DSI2 Simultaneous |            |         |           |                       |                          |                        |                     |          |  |
|----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                   | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                    |            |         |           | 346000                | 349000                   | 352000                 | 23.2                | 0.0      |  |
| Frequency (MHz)            |            |         |           | 1730                  | 1745                     | 1760                   |                     |          |  |
| 40                         | PI/2 BPSK  | 1       | 1         | 22.19                 | 22.26                    | 22.06                  | 23.2                | 0.0      |  |
| 40                         | PI/2 BPSK  | 1       | 108       | 21.80                 | 22.20                    | 21.85                  |                     |          |  |
| 40                         | PI/2 BPSK  | 1       | 214       | 21.84                 | 22.04                    | 21.83                  | 23.2                | 0.0      |  |
| 40                         | PI/2 BPSK  | 108     | 0         | 22.04                 | 22.09                    | 21.88                  |                     |          |  |
| 40                         | PI/2 BPSK  | 108     | 54        | 22.16                 | 22.13                    | 22.17                  | 23.2                | 0.0      |  |
| 40                         | PI/2 BPSK  | 108     | 108       | 21.97                 | 22.02                    | 21.79                  |                     |          |  |
| 40                         | PI/2 BPSK  | 216     | 0         | 22.00                 | 22.11                    | 21.97                  | 23.2                | 0.0      |  |
| 40                         | QPSK       | 1       | 1         | 22.32                 | 22.37                    | 22.29                  |                     |          |  |
| 40                         | QPSK       | 1       | 108       | 22.04                 | 22.28                    | 22.12                  | 23.0                | 0.2      |  |
| 40                         | QPSK       | 1       | 214       | 22.08                 | 22.27                    | 22.01                  |                     |          |  |
| 40                         | QPSK       | 108     | 0         | 22.22                 | 22.28                    | 22.16                  | 23.0                | 0.0      |  |
| 40                         | QPSK       | 108     | 54        | 22.30                 | 22.34                    | 22.26                  |                     |          |  |
| 40                         | QPSK       | 108     | 108       | 22.15                 | 22.25                    | 22.11                  | 23.0                | 0.2      |  |
| 40                         | QPSK       | 216     | 0         | 22.20                 | 22.29                    | 22.17                  |                     |          |  |
| 40                         | 16QAM      | 1       | 1         | 22.13                 | 22.21                    | 22.13                  | 23.0                | 0.2      |  |
| 40                         | 64QAM      | 1       | 1         | 20.56                 | 20.66                    | 20.58                  |                     |          |  |
| 40                         | 256QAM     | 1       | 1         | 18.65                 | 18.75                    | 18.70                  | 19.5                | 3.7      |  |
| Channel                    |            |         |           | 345000                | 349000                   | 353000                 |                     |          |  |
| Frequency (MHz)            |            |         |           | 1725                  | 1745                     | 1765                   | 23.2                | 0.0      |  |
| 30                         | QPSK       | 1       | 1         | 22.22                 | 22.17                    | 22.01                  |                     | 0.0      |  |
| Channel                    |            |         |           | 344000                | 349000                   | 354000                 | 23.2                | 0.0      |  |
| Frequency (MHz)            |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |  |
| 20                         | QPSK       | 1       | 1         | 22.19                 | 22.04                    | 22.01                  | 23.2                | 0.0      |  |
| Channel                    |            |         |           | 343500                | 349000                   | 354500                 |                     | 0.0      |  |
| Frequency (MHz)            |            |         |           | 1717.5                | 1745                     | 1772.5                 | 23.2                | 0.0      |  |
| 15                         | QPSK       | 1       | 1         | 22.05                 | 22.08                    | 22.05                  |                     | 0.0      |  |
| Channel                    |            |         |           | 343000                | 349000                   | 355000                 | 23.2                | 0.0      |  |
| Frequency (MHz)            |            |         |           | 1715                  | 1745                     | 1775                   |                     |          |  |
| 10                         | QPSK       | 1       | 1         | 22.07                 | 22.04                    | 22.05                  | 23.2                | 0.0      |  |
| Channel                    |            |         |           | 342500                | 349000                   | 355500                 |                     | 0.0      |  |
| Frequency (MHz)            |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |          |  |
| 5                          | QPSK       | 1       | 1         | 22.16                 | 22.09                    | 22.01                  | 23.2                | 0.0      |  |
| Channel                    |            |         |           | 342000                | 349000                   | 356000                 |                     |          |  |
| Frequency (MHz)            |            |         |           | 1710                  | 1745                     | 1780                   |                     |          |  |

## Part27Q n78 Ant2 DSI2 Simultaneous

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         | 15.08                       |                                |                              | 16.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 137       | 15.04                       |                                |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 271       | 14.85                       |                                |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         | 14.94                       |                                |                              | 16.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        | 15.16                       |                                |                              | 16.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       | 14.70                       |                                |                              | 16.5                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         | 15.06                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 1         | 15.21                       |                                |                              | 16.5                   | 0.0         |
| 100             | QPSK       | 1       | 137       | 15.18                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 271       | 15.07                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 0         | 15.03                       |                                |                              | 16.5                   | 0.0         |
| 100             | QPSK       | 135     | 69        | 15.11                       |                                |                              | 16.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       | 14.92                       |                                |                              | 16.5                   | 0.0         |
| 100             | QPSK       | 270     | 0         | 15.10                       |                                |                              |                        |             |
| 100             | 16QAM      | 1       | 1         | 14.91                       |                                |                              | 16.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 14.98                       |                                |                              | 16.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 15.03                       |                                |                              | 16.5                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      |                        |             |
| 90              | QPSK       | 1       | 1         | 15.05                       | 15.12                          | 15.16                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         |                        |             |
| 80              | QPSK       | 1       | 1         | 15.04                       | 15.13                          | 15.19                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      |                        |             |
| 70              | QPSK       | 1       | 1         | 15.02                       | 15.09                          | 15.13                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      |                        |             |
| 60              | QPSK       | 1       | 1         | 15.06                       | 15.05                          | 15.18                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         |                        |             |
| 50              | QPSK       | 1       | 1         | 15.07                       | 15.08                          | 15.13                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      |                        |             |
| 40              | QPSK       | 1       | 1         | 15.06                       | 15.09                          | 15.12                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      |                        |             |
| 30              | QPSK       | 1       | 1         | 15.03                       | 15.13                          | 15.18                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         |                        |             |
| 20              | QPSK       | 1       | 1         | 15.10                       | 15.10                          | 15.12                        | 16.5                   | 0.0         |

### Part27Q n78 Ant3 DSI2 Simultaneous

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 18.81                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 18.82                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 18.73                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 18.70                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 18.77                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 18.72                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 18.73                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 18.97                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 18.83                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 18.78                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 18.70                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 135     | 69        |                             | 18.84                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 18.75                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 270     | 0         |                             | 18.79                          |                              | 20.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 18.77                          |                              | 20.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 18.75                          |                              | 20.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 18.65                          |                              | 20.5                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 18.80                       | 18.72                          | 18.69                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 18.71                       | 18.81                          | 18.67                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 18.67                       | 18.73                          | 18.61                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 18.69                       | 18.75                          | 18.71                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 18.72                       | 18.76                          | 18.76                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 18.74                       | 18.74                          | 18.74                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 18.69                       | 18.82                          | 18.70                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 18.67                       | 18.73                          | 18.74                        | 20.5                   | 0.0         |

| n7 Ant5 DSI2 Simultaneous |            |         |           |                             |                                |                              |                        |             |
|---------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]                  | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel                   |            |         |           | 504000                      | 507000                         | 510000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)           |            |         |           | 2520                        | 2535                           | 2550                         |                        |             |
| 40                        | PI/2 BPSK  | 1       | 1         | 22.48                       | 22.56                          | 22.41                        | 24.0                   | 0.0         |
| 40                        | PI/2 BPSK  | 1       | 108       | 22.56                       | 22.62                          | 22.51                        |                        |             |
| 40                        | PI/2 BPSK  | 1       | 214       | 22.51                       | 22.55                          | 22.46                        |                        |             |
| 40                        | PI/2 BPSK  | 108     | 0         | 22.14                       | 22.18                          | 22.12                        |                        |             |
| 40                        | PI/2 BPSK  | 108     | 54        | 22.55                       | 22.59                          | 22.47                        | 24.0                   | 0.0         |
| 40                        | PI/2 BPSK  | 108     | 108       | 22.04                       | 22.13                          | 22.02                        | 23.5                   | 0.5         |
| 40                        | PI/2 BPSK  | 216     | 0         | 22.10                       | 22.17                          | 22.13                        |                        |             |
| 40                        | QPSK       | 1       | 1         | 22.61                       | 22.69                          | 22.64                        | 24.0                   | 0.0         |
| 40                        | QPSK       | 1       | 108       | 22.58                       | 22.67                          | 22.56                        |                        |             |
| 40                        | QPSK       | 1       | 214       | 22.55                       | 22.60                          | 22.50                        |                        |             |
| 40                        | QPSK       | 108     | 0         | 21.54                       | 21.68                          | 21.58                        |                        |             |
| 40                        | QPSK       | 108     | 54        | 22.51                       | 22.57                          | 22.55                        | 24.0                   | 0.0         |
| 40                        | QPSK       | 108     | 108       | 21.45                       | 21.63                          | 21.49                        | 23.0                   | 1.0         |
| 40                        | QPSK       | 216     | 0         | 21.60                       | 21.68                          | 21.66                        |                        |             |
| 40                        | 16QAM      | 1       | 1         | 21.72                       | 21.75                          | 21.62                        | 23.0                   | 1.0         |
| 40                        | 64QAM      | 1       | 1         | 19.97                       | 20.12                          | 20.05                        | 21.5                   | 2.5         |
| 40                        | 256QAM     | 1       | 1         | 18.01                       | 18.06                          | 17.99                        | 19.5                   | 4.5         |
| Channel                   |            |         |           | 503000                      | 507000                         | 511000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)           |            |         |           | 2515                        | 2535                           | 2555                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 30                        | QPSK       | 1       | 1         | 22.51                       | 22.65                          | 22.58                        |                        |             |
| Channel                   |            |         |           | 502500                      | 507000                         | 511500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)           |            |         |           | 2512.5                      | 2535                           | 2557.5                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 25                        | QPSK       | 1       | 1         | 22.49                       | 22.56                          | 22.57                        |                        |             |
| Channel                   |            |         |           | 502000                      | 507000                         | 512000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)           |            |         |           | 2510                        | 2535                           | 2560                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 20                        | PI/2 BPSK  | 1       | 1         | 22.49                       | 22.55                          | 22.55                        |                        |             |
| Channel                   |            |         |           | 501500                      | 507000                         | 512500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)           |            |         |           | 2507.5                      | 2535                           | 2562.5                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 15                        | QPSK       | 1       | 1         | 22.52                       | 22.62                          | 22.50                        |                        |             |
| Channel                   |            |         |           | 501000                      | 507000                         | 513000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)           |            |         |           | 2505                        | 2535                           | 2565                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 10                        | QPSK       | 1       | 1         | 22.50                       | 22.60                          | 22.58                        |                        |             |
| Channel                   |            |         |           | 500500                      | 507000                         | 513500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)           |            |         |           | 2502.5                      | 2535                           | 2567.5                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 5                         | QPSK       | 1       | 1         | 22.51                       | 22.59                          | 22.54                        |                        |             |

## Part27Q n78 Ant5 DSI2 Simultaneous

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 17.17                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 17.07                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 16.95                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 17.08                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 17.03                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 17.01                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 17.26                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 17.32                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 17.12                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 17.17                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 17.15                          |                              | 17.5                   | 1.0         |
| 100             | QPSK       | 135     | 69        |                             | 17.27                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 17.11                          |                              |                        |             |
| 100             | QPSK       | 270     | 0         |                             | 17.22                          |                              | 17.5                   | 1.0         |
| 100             | 16QAM      | 1       | 1         |                             | 17.20                          |                              | 18.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 17.14                          |                              | 18.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 17.19                          |                              | 18.5                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 17.10                       | 17.19                          | 17.15                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 17.23                       | 17.28                          | 17.06                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 17.23                       | 17.25                          | 17.12                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 17.11                       | 17.21                          | 17.13                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 17.11                       | 17.20                          | 17.10                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 17.12                       | 17.14                          | 17.16                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 17.17                       | 17.17                          | 17.14                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 17.22                       | 17.20                          | 17.17                        | 18.5                   | 0.0         |

## Part27Q n78 Ant7 DSI2 Simultaneous

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 19.75                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 19.69                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 19.62                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 19.12                          |                              | 20.0                   | 0.5         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 19.69                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 18.99                          |                              |                        |             |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 19.04                          |                              | 20.0                   | 0.5         |
| 100             | QPSK       | 1       | 1         |                             | 19.81                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 19.78                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 19.67                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 18.71                          |                              | 19.5                   | 1.0         |
| 100             | QPSK       | 135     | 69        |                             | 19.74                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 18.52                          |                              |                        |             |
| 100             | QPSK       | 270     | 0         |                             | 18.56                          |                              | 19.5                   | 1.0         |
| 100             | 16QAM      | 1       | 1         |                             | 18.78                          |                              | 19.5                   | 1.0         |
| 100             | 64QAM      | 1       | 1         |                             | 17.43                          |                              | 18.0                   | 2.5         |
| 100             | 256QAM     | 1       | 1         |                             | 15.28                          |                              | 16.0                   | 4.5         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 19.75                       | 19.75                          | 19.70                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 19.71                       | 19.77                          | 19.78                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 19.78                       | 19.70                          | 19.77                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 19.75                       | 19.68                          | 19.78                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 19.69                       | 19.69                          | 19.74                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 19.71                       | 19.72                          | 19.78                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 19.75                       | 19.73                          | 19.72                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 19.70                       | 19.67                          | 19.70                        | 20.5                   | 0.0         |

# Reduced Power Mode for DSI3 Standalone

| n2 Ant0 DSI3 Standalone |            |         |           |                             |                                |                              |                        |             |
|-------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel                 |            |         |           | 372000                      | 376000                         | 380000                       | 19.9                   | 0.0         |
| Frequency (MHz)         |            |         |           | 1860                        | 1880                           | 1900                         |                        |             |
| 20                      | PI/2 BPSK  | 1       | 1         | 18.91                       | 18.96                          | 18.73                        | 19.9                   | 0.0         |
| 20                      | PI/2 BPSK  | 1       | 53        | 18.85                       | 18.90                          | 18.72                        |                        |             |
| 20                      | PI/2 BPSK  | 1       | 104       | 18.70                       | 18.84                          | 18.78                        |                        |             |
| 20                      | PI/2 BPSK  | 50      | 0         | 18.85                       | 18.87                          | 18.66                        | 19.9                   | 0.0         |
| 20                      | PI/2 BPSK  | 50      | 28        | 18.74                       | 18.95                          | 18.82                        | 19.9                   | 0.0         |
| 20                      | PI/2 BPSK  | 50      | 56        | 18.69                       | 18.91                          | 18.75                        | 19.9                   | 0.0         |
| 20                      | PI/2 BPSK  | 100     | 0         | 18.94                       | 18.98                          | 18.84                        |                        |             |
| 20                      | QPSK       | 1       | 1         | 18.93                       | 19.01                          | 18.89                        | 19.9                   | 0.0         |
| 20                      | QPSK       | 1       | 53        | 18.83                       | 18.95                          | 18.90                        |                        |             |
| 20                      | QPSK       | 1       | 104       | 18.89                       | 18.99                          | 18.98                        |                        |             |
| 20                      | QPSK       | 50      | 0         | 18.79                       | 18.91                          | 18.90                        | 19.9                   | 0.0         |
| 20                      | QPSK       | 50      | 28        | 18.76                       | 18.93                          | 18.89                        | 19.9                   | 0.0         |
| 20                      | QPSK       | 50      | 56        | 18.74                       | 18.88                          | 18.68                        | 19.9                   | 0.0         |
| 20                      | QPSK       | 100     | 0         | 18.79                       | 18.90                          | 18.87                        |                        |             |
| 20                      | 16QAM      | 1       | 1         | 18.59                       | 18.79                          | 18.59                        | 19.9                   | 0.0         |
| 20                      | 64QAM      | 1       | 1         | 18.61                       | 18.73                          | 18.72                        | 19.9                   | 0.0         |
| 20                      | 256QAM     | 1       | 1         | 18.43                       | 18.52                          | 18.38                        | 19.5                   | 0.4         |
| Channel                 |            |         |           | 371500                      | 376000                         | 380500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)         |            |         |           | 1867.5                      | 1880                           | 1902.5                       |                        |             |
| 15                      | QPSK       | 1       | 1         | 18.62                       | 18.73                          | 18.70                        | 19.9                   | 0.0         |
| Channel                 |            |         |           | 371000                      | 376000                         | 381000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)         |            |         |           | 1855                        | 1880                           | 1905                         |                        |             |
| 10                      | QPSK       | 1       | 1         | 18.63                       | 18.80                          | 18.62                        | 19.9                   | 0.0         |
| Channel                 |            |         |           | 370500                      | 376000                         | 381500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)         |            |         |           | 1852.5                      | 1880                           | 1907.5                       |                        |             |
| 5                       | QPSK       | 1       | 1         | 18.75                       | 18.71                          | 18.62                        | 19.9                   | 0.0         |

| n7 Ant1 DSI3 Standalone |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 504000                | 507000                   | 510000                 | 17.1                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 2520                  | 2535                     | 2550                   |                     |          |  |
| 40                      | PI/2 BPSK  | 1       | 1         | 15.76                 | 16.02                    | 15.76                  | 17.1                | 0.0      |  |
| 40                      | PI/2 BPSK  | 1       | 108       | 15.61                 | 15.98                    | 15.65                  |                     |          |  |
| 40                      | PI/2 BPSK  | 1       | 214       | 15.63                 | 15.89                    | 15.60                  | 17.1                | 0.0      |  |
| 40                      | PI/2 BPSK  | 108     | 0         | 15.58                 | 15.95                    | 15.54                  |                     |          |  |
| 40                      | PI/2 BPSK  | 108     | 54        | 15.69                 | 16.00                    | 15.75                  | 17.1                | 0.0      |  |
| 40                      | PI/2 BPSK  | 108     | 108       | 15.67                 | 15.94                    | 15.67                  |                     |          |  |
| 40                      | PI/2 BPSK  | 216     | 0         | 15.65                 | 16.01                    | 15.82                  | 17.1                | 0.0      |  |
| 40                      | QPSK       | 1       | 1         | 15.86                 | 16.11                    | 15.90                  | 17.1                | 0.0      |  |
| 40                      | QPSK       | 1       | 108       | 15.73                 | 15.92                    | 15.68                  |                     |          |  |
| 40                      | QPSK       | 1       | 214       | 15.61                 | 15.97                    | 15.74                  | 17.1                | 0.0      |  |
| 40                      | QPSK       | 108     | 0         | 15.76                 | 16.04                    | 15.76                  |                     |          |  |
| 40                      | QPSK       | 108     | 54        | 15.77                 | 16.07                    | 15.65                  | 17.1                | 0.0      |  |
| 40                      | QPSK       | 108     | 108       | 15.64                 | 15.90                    | 15.68                  |                     |          |  |
| 40                      | QPSK       | 216     | 0         | 15.62                 | 15.97                    | 15.73                  | 17.1                | 0.0      |  |
| 40                      | 16QAM      | 1       | 1         | 15.78                 | 16.06                    | 15.86                  | 17.1                | 0.0      |  |
| 40                      | 64QAM      | 1       | 1         | 15.62                 | 16.03                    | 15.75                  |                     |          |  |
| 40                      | 256QAM     | 1       | 1         | 15.49                 | 15.87                    | 15.46                  | 17.1                | 0.0      |  |
| Channel                 |            |         |           | 503000                | 507000                   | 511000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 2515                  | 2535                     | 2555                   | 17.1                | 0.0      |  |
| 30                      | QPSK       | 1       | 1         | 15.68                 | 15.93                    | 15.35                  |                     |          |  |
| Channel                 |            |         |           | 502500                | 507000                   | 511500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 2512.5                | 2535                     | 2557.5                 | 17.1                | 0.0      |  |
| 25                      | QPSK       | 1       | 1         | 15.56                 | 15.87                    | 15.41                  |                     |          |  |
| Channel                 |            |         |           | 502000                | 507000                   | 512000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 2510                  | 2535                     | 2560                   | 17.1                | 0.0      |  |
| 20                      | PI/2 BPSK  | 1       | 1         | 15.53                 | 15.97                    | 15.33                  |                     |          |  |
| Channel                 |            |         |           | 501500                | 507000                   | 512500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 2507.5                | 2535                     | 2562.5                 | 17.1                | 0.0      |  |
| 15                      | QPSK       | 1       | 1         | 15.46                 | 15.89                    | 15.38                  |                     |          |  |
| Channel                 |            |         |           | 501000                | 507000                   | 513000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 2505                  | 2535                     | 2565                   | 17.1                | 0.0      |  |
| 10                      | QPSK       | 1       | 1         | 15.58                 | 15.91                    | 15.48                  |                     |          |  |
| Channel                 |            |         |           | 500500                | 507000                   | 513500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 2502.5                | 2535                     | 2567.5                 | 17.1                | 0.0      |  |
| 5                       | QPSK       | 1       | 1         | 15.46                 | 15.86                    | 15.52                  |                     |          |  |

| n66 Ant1 DSI3 Standalone |            |         |           |                       |                          |                        |                     |          |  |
|--------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                 | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                  |            |         |           | 346000                | 349000                   | 352000                 | 24.0                | 0.0      |  |
| Frequency (MHz)          |            |         |           | 1730                  | 1745                     | 1760                   |                     |          |  |
| 40                       | PI/2 BPSK  | 1       | 1         | 23.18                 | 23.22                    | 23.10                  | 24.0                | 0.0      |  |
| 40                       | PI/2 BPSK  | 1       | 108       | 23.03                 | 23.16                    | 23.05                  |                     |          |  |
| 40                       | PI/2 BPSK  | 1       | 214       | 22.87                 | 23.01                    | 22.89                  | 23.5                | 0.5      |  |
| 40                       | PI/2 BPSK  | 108     | 0         | 22.60                 | 22.72                    | 22.66                  |                     |          |  |
| 40                       | PI/2 BPSK  | 108     | 54        | 23.10                 | 23.13                    | 23.03                  | 23.5                | 0.5      |  |
| 40                       | PI/2 BPSK  | 108     | 108       | 22.68                 | 22.79                    | 22.64                  |                     |          |  |
| 40                       | PI/2 BPSK  | 216     | 0         | 22.58                 | 22.72                    | 22.63                  | 24.0                | 0.0      |  |
| 40                       | QPSK       | 1       | 1         | 23.24                 | 23.27                    | 23.19                  |                     |          |  |
| 40                       | QPSK       | 1       | 108       | 23.00                 | 23.13                    | 23.09                  | 23.0                | 1.0      |  |
| 40                       | QPSK       | 1       | 214       | 22.98                 | 23.05                    | 22.90                  |                     |          |  |
| 40                       | QPSK       | 108     | 0         | 22.22                 | 22.28                    | 22.16                  | 24.0                | 0.0      |  |
| 40                       | QPSK       | 108     | 54        | 23.11                 | 23.17                    | 23.12                  |                     |          |  |
| 40                       | QPSK       | 108     | 108       | 22.15                 | 22.25                    | 22.11                  | 23.0                | 1.0      |  |
| 40                       | QPSK       | 216     | 0         | 22.20                 | 22.29                    | 22.17                  |                     |          |  |
| 40                       | 16QAM      | 1       | 1         | 22.13                 | 22.21                    | 22.13                  | 21.5                | 2.5      |  |
| 40                       | 64QAM      | 1       | 1         | 20.56                 | 20.66                    | 20.58                  |                     |          |  |
| 40                       | 256QAM     | 1       | 1         | 18.65                 | 18.75                    | 18.70                  | 19.5                | 4.5      |  |
| Channel                  |            |         |           | 345000                | 349000                   | 353000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)          |            |         |           | 1725                  | 1745                     | 1765                   | 24.0                | 0.0      |  |
| 30                       | QPSK       | 1       | 1         | 23.20                 | 23.20                    | 23.04                  |                     |          |  |
| Channel                  |            |         |           | 344000                | 349000                   | 354000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)          |            |         |           | 1720                  | 1745                     | 1770                   | 24.0                | 0.0      |  |
| 20                       | QPSK       | 1       | 1         | 23.10                 | 23.13                    | 23.15                  |                     |          |  |
| Channel                  |            |         |           | 343500                | 349000                   | 354500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)          |            |         |           | 1717.5                | 1745                     | 1772.5                 | 24.0                | 0.0      |  |
| 15                       | QPSK       | 1       | 1         | 23.12                 | 23.19                    | 23.08                  |                     |          |  |
| Channel                  |            |         |           | 343000                | 349000                   | 355000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)          |            |         |           | 1715                  | 1745                     | 1775                   | 24.0                | 0.0      |  |
| 10                       | QPSK       | 1       | 1         | 23.10                 | 23.22                    | 23.04                  |                     |          |  |
| Channel                  |            |         |           | 342500                | 349000                   | 355500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)          |            |         |           | 1712.5                | 1745                     | 1777.5                 | 24.0                | 0.0      |  |
| 5                        | QPSK       | 1       | 1         | 23.19                 | 23.14                    | 23.14                  |                     |          |  |

## Part27Q n78 Ant2 DSI3 Standalone

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 15.73                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 15.55                          |                              | 16.6                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 15.44                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 15.62                          |                              | 16.6                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 15.51                          |                              | 16.6                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 15.36                          |                              | 16.6                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 15.44                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 15.77                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 15.59                          |                              | 16.6                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 15.49                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 15.54                          |                              | 16.6                   | 0.0         |
| 100             | QPSK       | 135     | 69        |                             | 15.68                          |                              | 16.6                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 15.42                          |                              | 16.6                   | 0.0         |
| 100             | QPSK       | 270     | 0         |                             | 15.53                          |                              |                        |             |
| 100             | 16QAM      | 1       | 1         |                             | 15.65                          |                              | 16.6                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 15.61                          |                              | 16.6                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 15.57                          |                              | 16.6                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      |                        |             |
| 90              | QPSK       | 1       | 1         | 15.67                       | 15.37                          | 15.36                        | 16.6                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         |                        |             |
| 80              | QPSK       | 1       | 1         | 15.66                       | 15.53                          | 15.32                        | 16.6                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      |                        |             |
| 70              | QPSK       | 1       | 1         | 15.65                       | 15.39                          | 15.44                        | 16.6                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      |                        |             |
| 60              | QPSK       | 1       | 1         | 15.52                       | 15.44                          | 15.23                        | 16.6                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         |                        |             |
| 50              | QPSK       | 1       | 1         | 15.50                       | 15.49                          | 15.44                        | 16.6                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      |                        |             |
| 40              | QPSK       | 1       | 1         | 15.50                       | 15.36                          | 15.45                        | 16.6                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      |                        |             |
| 30              | QPSK       | 1       | 1         | 15.46                       | 15.47                          | 15.41                        | 16.6                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         |                        |             |
| 20              | QPSK       | 1       | 1         | 15.49                       | 15.52                          | 15.25                        | 16.6                   | 0.0         |

### Part27Q n78 Ant3 DSI3 Standalone

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 11.85                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 11.78                          |                              | 12.9                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 11.73                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 11.67                          |                              | 12.9                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 11.76                          |                              | 12.9                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 11.69                          |                              | 12.9                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 11.72                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 12.01                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 11.86                          |                              | 12.9                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 11.80                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 11.72                          |                              | 12.9                   | 0.0         |
| 100             | QPSK       | 135     | 69        |                             | 11.95                          |                              | 12.9                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 11.75                          |                              | 12.9                   | 0.0         |
| 100             | QPSK       | 270     | 0         |                             | 11.79                          |                              |                        |             |
| 100             | 16QAM      | 1       | 1         |                             | 11.79                          |                              | 12.9                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 11.79                          |                              | 12.9                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 11.61                          |                              | 12.9                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      |                        |             |
| 90              | QPSK       | 1       | 1         | 11.29                       | 11.49                          | 11.23                        | 12.9                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         |                        |             |
| 80              | QPSK       | 1       | 1         | 11.28                       | 11.48                          | 11.19                        | 12.9                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      |                        |             |
| 70              | QPSK       | 1       | 1         | 11.24                       | 11.52                          | 11.17                        | 12.9                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      |                        |             |
| 60              | QPSK       | 1       | 1         | 11.23                       | 11.53                          | 11.19                        | 12.9                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         |                        |             |
| 50              | QPSK       | 1       | 1         | 11.25                       | 11.48                          | 11.17                        | 12.9                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      |                        |             |
| 40              | QPSK       | 1       | 1         | 11.25                       | 11.46                          | 11.17                        | 12.9                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      |                        |             |
| 30              | QPSK       | 1       | 1         | 11.26                       | 11.51                          | 11.20                        | 12.9                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         |                        |             |
| 20              | QPSK       | 1       | 1         | 11.28                       | 11.52                          | 11.23                        | 12.9                   | 0.0         |

| n7 Ant5 DSI3 Standalone |            |         |           |                             |                                |                              |                        |             |
|-------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel                 |            |         |           | 504000                      | 507000                         | 510000                       |                        |             |
| Frequency (MHz)         |            |         |           | 2520                        | 2535                           | 2550                         |                        |             |
| 40                      | PI/2 BPSK  | 1       | 1         | 18.15                       | 18.29                          | 18.13                        |                        |             |
| 40                      | PI/2 BPSK  | 1       | 108       | 17.81                       | 18.00                          | 17.75                        | 19.5                   | 0.0         |
| 40                      | PI/2 BPSK  | 1       | 214       | 18.00                       | 18.07                          | 17.98                        |                        |             |
| 40                      | PI/2 BPSK  | 108     | 0         | 17.81                       | 17.90                          | 17.85                        | 19.5                   | 0.0         |
| 40                      | PI/2 BPSK  | 108     | 54        | 17.86                       | 18.07                          | 17.68                        | 19.5                   | 0.0         |
| 40                      | PI/2 BPSK  | 108     | 108       | 17.92                       | 18.04                          | 17.78                        | 19.5                   | 0.0         |
| 40                      | PI/2 BPSK  | 216     | 0         | 17.85                       | 18.01                          | 17.94                        |                        |             |
| 40                      | QPSK       | 1       | 1         | 18.30                       | 18.37                          | 18.24                        |                        |             |
| 40                      | QPSK       | 1       | 108       | 18.02                       | 18.22                          | 17.95                        | 19.5                   | 0.0         |
| 40                      | QPSK       | 1       | 214       | 18.14                       | 18.24                          | 18.10                        |                        |             |
| 40                      | QPSK       | 108     | 0         | 18.08                       | 18.08                          | 18.05                        | 19.5                   | 0.0         |
| 40                      | QPSK       | 108     | 54        | 18.08                       | 18.18                          | 17.98                        | 19.5                   | 0.0         |
| 40                      | QPSK       | 108     | 108       | 18.11                       | 18.15                          | 18.06                        | 19.5                   | 0.0         |
| 40                      | QPSK       | 216     | 0         | 17.99                       | 18.22                          | 18.05                        | 19.5                   | 0.0         |
| 40                      | 16QAM      | 1       | 1         | 17.78                       | 18.08                          | 17.84                        | 19.5                   | 0.0         |
| 40                      | 64QAM      | 1       | 1         | 17.92                       | 17.98                          | 17.86                        | 19.5                   | 0.0         |
| 40                      | 256QAM     | 1       | 1         | 18.01                       | 18.06                          | 17.99                        | 18.5                   | 1.0         |
| Channel                 |            |         |           | 503000                      | 507000                         | 511000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)         |            |         |           | 2515                        | 2535                           | 2555                         |                        |             |
| 30                      | QPSK       | 1       | 1         | 17.54                       | 17.84                          | 17.76                        | 19.5                   | 0.0         |
| Channel                 |            |         |           | 502500                      | 507000                         | 511500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)         |            |         |           | 2512.5                      | 2535                           | 2557.5                       |                        |             |
| 25                      | QPSK       | 1       | 1         | 17.51                       | 17.81                          | 17.65                        | 19.5                   | 0.0         |
| Channel                 |            |         |           | 502000                      | 507000                         | 512000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)         |            |         |           | 2510                        | 2535                           | 2560                         |                        |             |
| 20                      | PI/2 BPSK  | 1       | 1         | 17.62                       | 17.97                          | 17.71                        | 19.5                   | 0.0         |
| Channel                 |            |         |           | 501500                      | 507000                         | 512500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)         |            |         |           | 2507.5                      | 2535                           | 2562.5                       |                        |             |
| 15                      | QPSK       | 1       | 1         | 17.58                       | 17.83                          | 17.55                        | 19.5                   | 0.0         |
| Channel                 |            |         |           | 501000                      | 507000                         | 513000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)         |            |         |           | 2505                        | 2535                           | 2565                         |                        |             |
| 10                      | QPSK       | 1       | 1         | 17.68                       | 17.79                          | 17.70                        | 19.5                   | 0.0         |
| Channel                 |            |         |           | 500500                      | 507000                         | 513500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)         |            |         |           | 2502.5                      | 2535                           | 2567.5                       |                        |             |
| 5                       | QPSK       | 1       | 1         | 17.56                       | 17.76                          | 17.70                        | 19.5                   | 0.0         |

### Part27Q n78 Ant5 DSI3 Standalone

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 17.17                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 17.07                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 16.95                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 17.08                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 17.03                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 17.01                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 17.26                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 17.32                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 17.12                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 17.17                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 17.15                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 135     | 69        |                             | 17.27                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 17.11                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 270     | 0         |                             | 17.22                          |                              |                        |             |
| 100             | 16QAM      | 1       | 1         |                             | 17.20                          |                              | 18.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 17.14                          |                              | 18.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 17.19                          |                              | 18.5                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 17.10                       | 17.19                          | 17.15                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 17.23                       | 17.28                          | 17.06                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 17.23                       | 17.25                          | 17.12                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 17.11                       | 17.21                          | 17.13                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 17.11                       | 17.20                          | 17.10                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 17.12                       | 17.14                          | 17.16                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 17.17                       | 17.17                          | 17.14                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 17.22                       | 17.20                          | 17.17                        | 18.5                   | 0.0         |

## Part27Q n78 Ant7 DSI3 Standalone

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 633334                      |                                |                              | 20.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 3500.01                     |                                |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 19.17                          |                              | 20.0                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 19.09                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 18.99                          |                              | 20.0                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 18.88                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 19.07                          |                              | 20.0                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 18.66                          |                              |                        |             |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 18.65                          |                              | 20.0                   | 0.0         |
| 100             | QPSK       | 1       | 1         |                             | 19.27                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 19.25                          |                              | 20.0                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 19.17                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 18.71                          |                              | 19.5                   | 0.5         |
| 100             | QPSK       | 135     | 69        |                             | 19.18                          |                              |                        |             |
| 100             | QPSK       | 135     | 138       |                             | 18.52                          |                              | 19.5                   | 0.5         |
| 100             | QPSK       | 270     | 0         |                             | 18.56                          |                              |                        |             |
| 100             | 16QAM      | 1       | 1         |                             | 18.78                          |                              | 19.5                   | 0.5         |
| 100             | 64QAM      | 1       | 1         |                             | 17.43                          |                              |                        |             |
| 100             | 256QAM     | 1       | 1         |                             | 15.28                          |                              | 16.0                   | 4.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 19.17                       | 19.12                          | 19.11                        | 20.0                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 19.12                       | 19.16                          | 19.15                        | 20.0                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 19.19                       | 19.15                          | 19.07                        | 20.0                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 19.14                       | 19.14                          | 19.05                        | 20.0                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 19.14                       | 19.19                          | 19.12                        | 20.0                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 19.13                       | 19.17                          | 19.06                        | 20.0                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 19.19                       | 19.13                          | 19.10                        | 20.0                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 19.16                       | 19.18                          | 19.07                        | 20.0                   | 0.0         |

# Reduced Power Mode for DSI3 Simultaneous

| n2 Ant0 DSI3 Simultaneous |            |         |           |                          |                             |                                                         |                        |             |
|---------------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------------------------------------|------------------------|-------------|
| BW [MHz]                  | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq.                               | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel                   |            |         |           | 372000                   | 376000                      | 380000                                                  | 18.0                   | 0.0         |
| Frequency (MHz)           |            |         |           | 1860                     | 1880                        | 1900                                                    |                        |             |
| 20                        | PI/2 BPSK  | 1       | 1         | 16.82                    | 16.82                       | 16.63                                                   | 18.0                   | 0.0         |
| 20                        | PI/2 BPSK  | 1       | 53        | 16.77                    | 16.84                       | 16.57                                                   |                        |             |
| 20                        | PI/2 BPSK  | 1       | 104       | 16.63                    | 16.74                       | 16.64                                                   |                        |             |
| 20                        | PI/2 BPSK  | 50      | 0         | 16.76                    | 16.72                       | 16.57                                                   | 18.0                   | 0.0         |
| 20                        | PI/2 BPSK  | 50      | 28        | 16.63                    | 16.83                       | 16.75                                                   | 18.0                   | 0.0         |
| 20                        | PI/2 BPSK  | 50      | 56        | 16.63                    | 16.80                       | 16.62                                                   | 18.0                   | 0.0         |
| 20                        | PI/2 BPSK  | 100     | 0         | 16.61                    | 16.77                       | 16.51                                                   |                        |             |
| 20                        | QPSK       | 1       | 1         | 16.86                    | 16.88                       | 16.76                                                   |                        |             |
| 20                        | QPSK       | 1       | 53        | 16.73                    | 16.85                       | 16.77                                                   | 18.0                   | 0.0         |
| 20                        | QPSK       | 1       | 104       | 16.83                    | 16.82                       | 16.87                                                   |                        |             |
| 20                        | QPSK       | 50      | 0         | 16.72                    | 16.79                       | 16.85                                                   | 18.0                   | 0.0         |
| 20                        | QPSK       | 50      | 28        | 16.61                    | 16.85                       | 16.71                                                   | 18.0                   | 0.0         |
| 20                        | QPSK       | 50      | 56        | 16.65                    | 16.75                       | 16.58                                                   | 18.0                   | 0.0         |
| 20                        | QPSK       | 100     | 0         | 16.70                    | 16.82                       | 16.81                                                   |                        |             |
| 20                        | 16QAM      | 1       | 1         | 16.49                    | 16.72                       | 16.51                                                   | 18.0                   | 0.0         |
| 20                        | 64QAM      | 1       | 1         | 16.51                    | 16.62                       | 16.58                                                   | 18.0                   | 0.0         |
| 20                        | 256QAM     | 1       | 1         | 16.60                    | 16.77                       | 16.55                                                   | 18.0                   | 0.0         |
| Channel                   |            |         |           | 371500                   | 376000                      | 380500                                                  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)           |            |         |           | 1867.5                   | 1880                        | 1902.5                                                  | 18.0                   | 0.0         |
| 15                        | QPSK       | 1       | 1         | 16.80                    | 16.78                       | 16.64                                                   |                        |             |
| Channel                   |            |         |           | 371000                   | 376000                      | 381000                                                  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)           |            |         |           | 1855                     | 1880                        | 1905 <th rowspan="2">18.0</th> <th rowspan="2">0.0</th> | 18.0                   | 0.0         |
| 10                        | QPSK       | 1       | 1         | 16.71                    | 16.74                       | 16.66                                                   |                        |             |
| Channel                   |            |         |           | 370500                   | 376000                      | 381500                                                  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)           |            |         |           | 1852.5                   | 1880                        | 1907.5                                                  | 18.0                   | 0.0         |
| 5                         | QPSK       | 1       | 1         | 16.80                    | 16.81                       | 16.68                                                   |                        |             |

| n7 Ant1 DSI3 Simultaneous |            |         |           |                             |                                |                              |                        |                        |  |
|---------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|------------------------|--|
| BW [MHz]                  | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB)            |  |
| Channel                   |            |         |           | 504000                      | 507000                         | 510000                       | 13.0                   | 0.0                    |  |
| Frequency (MHz)           |            |         |           | 2520                        | 2535                           | 2550                         |                        |                        |  |
| 40                        | PI/2 BPSK  | 1       | 1         | 11.94                       | 11.83                          | 11.90                        |                        |                        |  |
| 40                        | PI/2 BPSK  | 1       | 108       | 11.87                       | 11.89                          | 11.71                        | 13.0                   | 0.0                    |  |
| 40                        | PI/2 BPSK  | 1       | 214       | 11.71                       | 11.95                          | 11.93                        |                        |                        |  |
| 40                        | PI/2 BPSK  | 108     | 0         | 11.84                       | 12.07                          | 11.85                        |                        |                        |  |
| 40                        | PI/2 BPSK  | 108     | 54        | 11.79                       | 11.94                          | 11.83                        | 13.0                   | 0.0                    |  |
| 40                        | PI/2 BPSK  | 108     | 108       | 11.74                       | 11.87                          | 11.91                        |                        |                        |  |
| 40                        | PI/2 BPSK  | 216     | 0         | 11.77                       | 12.08                          | 11.85                        |                        |                        |  |
| 40                        | QPSK       | 1       | 1         | 12.04                       | 12.17                          | 11.98                        | 13.0                   | 0.0                    |  |
| 40                        | QPSK       | 1       | 108       | 11.89                       | 11.92                          | 11.71                        |                        |                        |  |
| 40                        | QPSK       | 1       | 214       | 11.71                       | 12.11                          | 11.82                        |                        |                        |  |
| 40                        | QPSK       | 108     | 0         | 11.83                       | 11.97                          | 11.70                        | 13.0                   | 0.0                    |  |
| 40                        | QPSK       | 108     | 54        | 11.80                       | 12.00                          | 11.86                        |                        |                        |  |
| 40                        | QPSK       | 108     | 108       | 11.73                       | 11.93                          | 11.79                        |                        |                        |  |
| 40                        | QPSK       | 216     | 0         | 11.92                       | 11.96                          | 11.74                        | 13.0                   | 0.0                    |  |
| 40                        | 16QAM      | 1       | 1         | 11.99                       | 11.83                          | 11.92                        |                        |                        |  |
| 40                        | 64QAM      | 1       | 1         | 11.97                       | 11.86                          | 11.79                        |                        |                        |  |
| 40                        | 256QAM     | 1       | 1         | 11.90                       | 11.88                          | 11.75                        | 13.0                   | 0.0                    |  |
| Channel                   |            |         |           | 503000                      | 507000                         | 511000                       |                        |                        |  |
| Frequency (MHz)           |            |         |           | 2515                        | 2535                           | 2555                         |                        | Tune-up limit<br>(dBm) |  |
| 30                        | QPSK       | 1       | 1         | 11.74                       | 11.82                          | 11.51                        | 13.0                   | 0.0                    |  |
| Channel                   |            |         |           | 502500                      | 507000                         | 511500                       |                        | Tune-up limit<br>(dBm) |  |
| Frequency (MHz)           |            |         |           | 2512.5                      | 2535                           | 2557.5                       |                        | MPR<br>(dB)            |  |
| 25                        | QPSK       | 1       | 1         | 11.80                       | 11.75                          | 11.51                        | 13.0                   | 0.0                    |  |
| Channel                   |            |         |           | 502000                      | 507000                         | 512000                       |                        | Tune-up limit<br>(dBm) |  |
| Frequency (MHz)           |            |         |           | 2510                        | 2535                           | 2560                         |                        | MPR<br>(dB)            |  |
| 20                        | PI/2 BPSK  | 1       | 1         | 11.74                       | 11.78                          | 11.57                        | 13.0                   | 0.0                    |  |
| Channel                   |            |         |           | 501500                      | 507000                         | 512500                       |                        | Tune-up limit<br>(dBm) |  |
| Frequency (MHz)           |            |         |           | 2507.5                      | 2535                           | 2562.5                       |                        | MPR<br>(dB)            |  |
| 15                        | QPSK       | 1       | 1         | 11.72                       | 11.85                          | 11.59                        | 13.0                   | 0.0                    |  |
| Channel                   |            |         |           | 501000                      | 507000                         | 513000                       |                        | Tune-up limit<br>(dBm) |  |
| Frequency (MHz)           |            |         |           | 2505                        | 2535                           | 2565                         |                        | MPR<br>(dB)            |  |
| 10                        | QPSK       | 1       | 1         | 11.73                       | 11.83                          | 11.52                        | 13.0                   | 0.0                    |  |
| Channel                   |            |         |           | 500500                      | 507000                         | 513500                       |                        | Tune-up limit<br>(dBm) |  |
| Frequency (MHz)           |            |         |           | 2502.5                      | 2535                           | 2567.5                       |                        | MPR<br>(dB)            |  |
| 5                         | QPSK       | 1       | 1         | 11.80                       | 11.84                          | 11.63                        | 13.0                   | 0.0                    |  |
| Channel                   |            |         |           | 500000                      | 507000                         | 514000                       |                        | Tune-up limit<br>(dBm) |  |
| Frequency (MHz)           |            |         |           | 2500                        | 2535                           | 2570                         |                        | MPR<br>(dB)            |  |

| n66 Ant1 DSI3 Simultaneous |            |         |           |                             |                                |                              |                        |                        |  |
|----------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|------------------------|--|
| BW [MHz]                   | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB)            |  |
| Channel                    |            |         |           | 346000                      | 349000                         | 352000                       | 22.0                   | 0.0                    |  |
| Frequency (MHz)            |            |         |           | 1730                        | 1745                           | 1760                         |                        |                        |  |
| 40                         | PI/2 BPSK  | 1       | 1         | 20.71                       | 20.69                          | 20.60                        |                        |                        |  |
| 40                         | PI/2 BPSK  | 1       | 108       | 20.67                       | 20.74                          | 20.64                        | 22.0                   | 0.0                    |  |
| 40                         | PI/2 BPSK  | 1       | 214       | 20.64                       | 20.72                          | 20.60                        |                        |                        |  |
| 40                         | PI/2 BPSK  | 108     | 0         | 20.66                       | 20.77                          | 20.63                        |                        |                        |  |
| 40                         | PI/2 BPSK  | 108     | 54        | 20.67                       | 20.71                          | 20.68                        | 22.0                   | 0.0                    |  |
| 40                         | PI/2 BPSK  | 108     | 108       | 20.71                       | 20.77                          | 20.69                        |                        |                        |  |
| 40                         | PI/2 BPSK  | 216     | 0         | 20.68                       | 20.74                          | 20.62                        |                        |                        |  |
| 40                         | QPSK       | 1       | 1         | 20.78                       | 20.83                          | 20.73                        | 22.0                   | 0.0                    |  |
| 40                         | QPSK       | 1       | 108       | 20.63                       | 20.69                          | 20.63                        |                        |                        |  |
| 40                         | QPSK       | 1       | 214       | 20.64                       | 20.72                          | 20.61                        |                        |                        |  |
| 40                         | QPSK       | 108     | 0         | 20.68                       | 20.70                          | 20.59                        | 22.0                   | 0.0                    |  |
| 40                         | QPSK       | 108     | 54        | 20.71                       | 20.76                          | 20.59                        |                        |                        |  |
| 40                         | QPSK       | 108     | 108       | 20.71                       | 20.74                          | 20.60                        |                        |                        |  |
| 40                         | QPSK       | 216     | 0         | 20.73                       | 20.74                          | 20.63                        | 22.0                   | 0.0                    |  |
| 40                         | 16QAM      | 1       | 1         | 20.67                       | 20.70                          | 20.66                        |                        |                        |  |
| 40                         | 64QAM      | 1       | 1         | 20.56                       | 20.66                          | 20.58                        |                        | 21.5                   |  |
| 40                         | 256QAM     | 1       | 1         | 18.65                       | 18.75                          | 18.70                        | 19.5                   | 2.5                    |  |
| Channel                    |            |         |           | 345000                      | 349000                         | 353000                       |                        | Tune-up limit<br>(dBm) |  |
| Frequency (MHz)            |            |         |           | 1725                        | 1745                           | 1765                         |                        | MPR<br>(dB)            |  |
| 30                         | QPSK       | 1       | 1         | 20.65                       | 20.70                          | 20.62                        | 22.0                   | 0.0                    |  |
| Channel                    |            |         |           | 344000                      | 349000                         | 354000                       |                        | Tune-up limit<br>(dBm) |  |
| Frequency (MHz)            |            |         |           | 1720                        | 1745                           | 1770                         |                        | MPR<br>(dB)            |  |
| 20                         | QPSK       | 1       | 1         | 20.65                       | 20.76                          | 20.61                        | 22.0                   | 0.0                    |  |
| Channel                    |            |         |           | 343500                      | 349000                         | 354500                       |                        | Tune-up limit<br>(dBm) |  |
| Frequency (MHz)            |            |         |           | 1717.5                      | 1745                           | 1772.5                       |                        | MPR<br>(dB)            |  |
| 15                         | QPSK       | 1       | 1         | 20.67                       | 20.73                          | 20.66                        | 22.0                   | 0.0                    |  |
| Channel                    |            |         |           | 343000                      | 349000                         | 355000                       |                        | Tune-up limit<br>(dBm) |  |
| Frequency (MHz)            |            |         |           | 1715                        | 1745                           | 1775                         |                        | MPR<br>(dB)            |  |
| 10                         | QPSK       | 1       | 1         | 20.65                       | 20.68                          | 20.66                        | 22.0                   | 0.0                    |  |
| Channel                    |            |         |           | 342500                      | 349000                         | 355500                       |                        | Tune-up limit<br>(dBm) |  |
| Frequency (MHz)            |            |         |           | 1712.5                      | 1745                           | 1777.5                       |                        | MPR<br>(dB)            |  |
| 5                          | QPSK       | 1       | 1         | 20.73                       | 20.72                          | 20.63                        | 22.0                   | 0.0                    |  |
| Channel                    |            |         |           | 342000                      | 349000                         | 356000                       |                        | Tune-up limit<br>(dBm) |  |
| Frequency (MHz)            |            |         |           | 1710                        | 1745                           | 1780                         |                        | MPR<br>(dB)            |  |

## Part27Q n78 Ant2 DSI3 Simultaneous

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 14.70                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 14.53                          |                              | 15.6                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 14.36                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 14.69                          |                              | 15.6                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 14.56                          |                              | 15.6                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 14.36                          |                              | 15.6                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 14.53                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 14.76                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 14.58                          |                              | 15.6                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 14.40                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 14.55                          |                              | 15.6                   | 0.0         |
| 100             | QPSK       | 135     | 69        |                             | 14.71                          |                              | 15.6                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 14.40                          |                              |                        |             |
| 100             | QPSK       | 270     | 0         |                             | 14.57                          |                              | 15.6                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 14.52                          |                              | 15.6                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 14.48                          |                              | 15.6                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 14.45                          |                              | 15.6                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 14.47                       | 14.62                          | 14.41                        | 15.6                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 14.52                       | 14.41                          | 14.39                        | 15.6                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 14.61                       | 14.60                          | 14.32                        | 15.6                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 14.55                       | 14.41                          | 14.32                        | 15.6                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 14.55                       | 14.55                          | 14.37                        | 15.6                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 14.50                       | 14.59                          | 14.46                        | 15.6                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 14.48                       | 14.54                          | 14.30                        | 15.6                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 14.51                       | 14.46                          | 14.33                        | 15.6                   | 0.0         |

## Part27Q n78 Ant3 DSI3 Simultaneous

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 10.44                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 10.40                          |                              | 11.9                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 10.31                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 10.25                          |                              | 11.9                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 10.40                          |                              | 11.9                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 10.25                          |                              | 11.9                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 10.36                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 10.65                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 10.58                          |                              | 11.9                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 10.41                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 10.34                          |                              | 11.9                   | 0.0         |
| 100             | QPSK       | 135     | 69        |                             | 10.58                          |                              | 11.9                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 10.43                          |                              |                        |             |
| 100             | QPSK       | 270     | 0         |                             | 10.44                          |                              | 11.9                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 10.47                          |                              | 11.9                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 10.39                          |                              | 11.9                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 10.31                          |                              | 11.9                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 10.13                       | 10.26                          | 10.04                        | 11.9                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 10.08                       | 10.32                          | 10.09                        | 11.9                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 10.09                       | 10.32                          | 10.00                        | 11.9                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 10.10                       | 10.28                          | 10.05                        | 11.9                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 10.10                       | 10.31                          | 10.02                        | 11.9                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 10.13                       | 10.30                          | 10.01                        | 11.9                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 10.14                       | 10.27                          | 10.05                        | 11.9                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 10.09                       | 10.31                          | 10.00                        | 11.9                   | 0.0         |

| n7 DSI7 Ant5 DSI3 Simultaneous |            |         |           |                             |                                |                              |                        |             |
|--------------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]                       | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel                        |            |         |           | 504000                      | 507000                         | 510000                       |                        |             |
| Frequency (MHz)                |            |         |           | 2520                        | 2535                           | 2550                         |                        |             |
| 40                             | PI/2 BPSK  | 1       | 1         | 18.15                       | 18.29                          | 18.13                        |                        |             |
| 40                             | PI/2 BPSK  | 1       | 108       | 17.81                       | 18.00                          | 17.75                        | 19.5                   | 0.0         |
| 40                             | PI/2 BPSK  | 1       | 214       | 18.00                       | 18.07                          | 17.98                        |                        |             |
| 40                             | PI/2 BPSK  | 108     | 0         | 17.81                       | 17.90                          | 17.85                        | 19.5                   | 0.0         |
| 40                             | PI/2 BPSK  | 108     | 54        | 17.86                       | 18.07                          | 17.68                        | 19.5                   | 0.0         |
| 40                             | PI/2 BPSK  | 108     | 108       | 17.92                       | 18.04                          | 17.78                        | 19.5                   | 0.0         |
| 40                             | PI/2 BPSK  | 216     | 0         | 17.85                       | 18.01                          | 17.94                        |                        |             |
| 40                             | QPSK       | 1       | 1         | 18.30                       | 18.37                          | 18.24                        |                        |             |
| 40                             | QPSK       | 1       | 108       | 18.02                       | 18.22                          | 17.95                        | 19.5                   | 0.0         |
| 40                             | QPSK       | 1       | 214       | 18.14                       | 18.24                          | 18.10                        |                        |             |
| 40                             | QPSK       | 108     | 0         | 18.08                       | 18.08                          | 18.05                        | 19.5                   | 0.0         |
| 40                             | QPSK       | 108     | 54        | 18.08                       | 18.18                          | 17.98                        | 19.5                   | 0.0         |
| 40                             | QPSK       | 108     | 108       | 18.11                       | 18.15                          | 18.06                        | 19.5                   | 0.0         |
| 40                             | QPSK       | 216     | 0         | 17.99                       | 18.22                          | 18.05                        | 19.5                   | 0.0         |
| 40                             | 16QAM      | 1       | 1         | 17.78                       | 18.08                          | 17.84                        | 19.5                   | 0.0         |
| 40                             | 64QAM      | 1       | 1         | 17.92                       | 17.98                          | 17.86                        | 19.5                   | 0.0         |
| 40                             | 256QAM     | 1       | 1         | 18.01                       | 18.06                          | 17.99                        | 18.5                   | 1.0         |
| Channel                        |            |         |           | 503000                      | 507000                         | 511000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)                |            |         |           | 2515                        | 2535                           | 2555                         |                        |             |
| 30                             | QPSK       | 1       | 1         | 17.54                       | 17.84                          | 17.76                        | 19.5                   | 0.0         |
| Channel                        |            |         |           | 502500                      | 507000                         | 511500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)                |            |         |           | 2512.5                      | 2535                           | 2557.5                       |                        |             |
| 25                             | QPSK       | 1       | 1         | 17.51                       | 17.81                          | 17.65                        | 19.5                   | 0.0         |
| Channel                        |            |         |           | 502000                      | 507000                         | 512000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)                |            |         |           | 2510                        | 2535                           | 2560                         |                        |             |
| 20                             | PI/2 BPSK  | 1       | 1         | 17.62                       | 17.97                          | 17.71                        | 19.5                   | 0.0         |
| Channel                        |            |         |           | 501500                      | 507000                         | 512500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)                |            |         |           | 2507.5                      | 2535                           | 2562.5                       |                        |             |
| 15                             | QPSK       | 1       | 1         | 17.58                       | 17.83                          | 17.55                        | 19.5                   | 0.0         |
| Channel                        |            |         |           | 501000                      | 507000                         | 513000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)                |            |         |           | 2505                        | 2535                           | 2565                         |                        |             |
| 10                             | QPSK       | 1       | 1         | 17.68                       | 17.79                          | 17.70                        | 19.5                   | 0.0         |
| Channel                        |            |         |           | 500500                      | 507000                         | 513500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)                |            |         |           | 2502.5                      | 2535                           | 2567.5                       |                        |             |
| 5                              | QPSK       | 1       | 1         | 17.56                       | 17.76                          | 17.70                        | 19.5                   | 0.0         |

## Part27Q n78 Ant5 DSI3 Simultaneous

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 17.17                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 17.07                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 16.95                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 17.08                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 17.03                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 17.01                          |                              |                        |             |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 17.26                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 1       | 1         |                             | 17.32                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 17.12                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 17.17                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 17.15                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 135     | 69        |                             | 17.27                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 17.11                          |                              |                        |             |
| 100             | QPSK       | 270     | 0         |                             | 17.22                          |                              | 18.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 17.20                          |                              | 18.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 17.14                          |                              | 18.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 17.19                          |                              | 18.5                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 17.10                       | 17.19                          | 17.15                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 17.23                       | 17.28                          | 17.06                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 17.23                       | 17.25                          | 17.12                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 17.11                       | 17.21                          | 17.13                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 17.11                       | 17.20                          | 17.10                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 17.12                       | 17.14                          | 17.16                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 17.17                       | 17.17                          | 17.14                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 17.22                       | 17.20                          | 17.17                        | 18.5                   | 0.0         |

## Part27Q n78 Ant7 DSI3 Simultaneous

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 17.70                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 17.67                          |                              | 18.7                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 17.60                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 17.63                          |                              | 18.7                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 17.74                          |                              | 18.7                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 17.48                          |                              | 18.7                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 17.54                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 17.75                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 17.71                          |                              | 18.7                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 17.69                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 17.66                          |                              | 18.7                   | 0.0         |
| 100             | QPSK       | 135     | 69        |                             | 17.72                          |                              | 18.7                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 17.53                          |                              | 18.7                   | 0.0         |
| 100             | QPSK       | 270     | 0         |                             | 17.59                          |                              |                        |             |
| 100             | 16QAM      | 1       | 1         |                             | 17.65                          |                              | 18.7                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 17.43                          |                              | 17.5                   | 1.2         |
| 100             | 256QAM     | 1       | 1         |                             | 15.28                          |                              | 15.5                   | 3.2         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      |                        |             |
| 90              | QPSK       | 1       | 1         | 17.57                       | 17.65                          | 17.55                        | 18.7                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         |                        |             |
| 80              | QPSK       | 1       | 1         | 17.60                       | 17.74                          | 17.61                        | 18.7                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      |                        |             |
| 70              | QPSK       | 1       | 1         | 17.63                       | 17.68                          | 17.59                        | 18.7                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      |                        |             |
| 60              | QPSK       | 1       | 1         | 17.61                       | 17.67                          | 17.53                        | 18.7                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         |                        |             |
| 50              | QPSK       | 1       | 1         | 17.57                       | 17.70                          | 17.57                        | 18.7                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      |                        |             |
| 40              | QPSK       | 1       | 1         | 17.56                       | 17.74                          | 17.54                        | 18.7                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      |                        |             |
| 30              | QPSK       | 1       | 1         | 17.57                       | 17.66                          | 17.55                        | 18.7                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         |                        |             |
| 20              | QPSK       | 1       | 1         | 17.60                       | 17.66                          | 17.52                        | 18.7                   | 0.0         |

# Reduced Power Mode for DSI6

| n2 Ant0 DSI6    |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | 21.6                | 0.0      |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |
| 20              | PI/2 BPSK  | 1       | 1         | 20.46                 | 20.56                    | 20.45                  |                     |          |
| 20              | PI/2 BPSK  | 1       | 53        | 20.44                 | 20.52                    | 20.39                  | 21.6                | 0.0      |
| 20              | PI/2 BPSK  | 1       | 104       | 20.38                 | 20.51                    | 20.45                  |                     |          |
| 20              | PI/2 BPSK  | 50      | 0         | 20.52                 | 20.60                    | 20.45                  |                     |          |
| 20              | PI/2 BPSK  | 50      | 28        | 20.48                 | 20.55                    | 20.46                  | 21.6                | 0.0      |
| 20              | PI/2 BPSK  | 50      | 56        | 20.49                 | 20.56                    | 20.44                  |                     |          |
| 20              | PI/2 BPSK  | 100     | 0         | 20.46                 | 20.60                    | 20.52                  |                     |          |
| 20              | QPSK       | 1       | 1         | 20.68                 | 20.75                    | 20.62                  | 21.6                | 0.0      |
| 20              | QPSK       | 1       | 53        | 20.48                 | 20.54                    | 20.42                  |                     |          |
| 20              | QPSK       | 1       | 104       | 20.47                 | 20.56                    | 20.50                  |                     |          |
| 20              | QPSK       | 50      | 0         | 20.43                 | 20.58                    | 20.52                  | 21.6                | 0.0      |
| 20              | QPSK       | 50      | 28        | 20.48                 | 20.59                    | 20.53                  |                     |          |
| 20              | QPSK       | 50      | 56        | 20.45                 | 20.51                    | 20.43                  |                     |          |
| 20              | QPSK       | 100     | 0         | 20.43                 | 20.56                    | 20.49                  | 21.6                | 0.0      |
| 20              | 16QAM      | 1       | 1         | 20.49                 | 20.57                    | 20.51                  |                     |          |
| 20              | 64QAM      | 1       | 1         | 20.27                 | 20.39                    | 20.32                  |                     |          |
| 20              | 256QAM     | 1       | 1         | 18.43                 | 18.52                    | 18.38                  | 19.5                | 2.1      |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1867.5                | 1880                     | 1902.5                 |                     |          |
| 15              | QPSK       | 1       | 1         | 20.53                 | 20.54                    | 20.52                  | 21.6                | 0.0      |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |          |
| 10              | QPSK       | 1       | 1         | 20.52                 | 20.53                    | 20.48                  | 21.6                | 0.0      |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 20.49                 | 20.50                    | 20.50                  | 21.6                | 0.0      |

| n7 Ant1 DSI6    |            |         |           |                         |                            |                          |                        |             |  |
|-----------------|------------|---------|-----------|-------------------------|----------------------------|--------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq | Power Middle<br>Ch. / Freq | Power High<br>Ch. / Freq | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 504000                  | 507000                     | 510000                   | 22.1                   | 0.0         |  |
| Frequency (MHz) |            |         |           | 2520                    | 2535                       | 2550                     |                        |             |  |
| 40              | PI/2 BPSK  | 1       | 1         | 20.73                   | 20.86                      | 20.76                    |                        |             |  |
| 40              | PI/2 BPSK  | 1       | 108       | 20.71                   | 20.81                      | 20.83                    | 22.1                   | 0.0         |  |
| 40              | PI/2 BPSK  | 1       | 214       | 20.75                   | 20.88                      | 20.76                    |                        |             |  |
| 40              | PI/2 BPSK  | 108     | 0         | 20.74                   | 20.83                      | 20.77                    |                        |             |  |
| 40              | PI/2 BPSK  | 108     | 54        | 20.76                   | 20.90                      | 20.78                    | 22.1                   | 0.0         |  |
| 40              | PI/2 BPSK  | 108     | 108       | 20.75                   | 20.85                      | 20.80                    |                        |             |  |
| 40              | PI/2 BPSK  | 216     | 0         | 20.74                   | 20.89                      | 20.77                    |                        |             |  |
| 40              | QPSK       | 1       | 1         | 20.84                   | 20.96                      | 20.91                    | 22.1                   | 0.0         |  |
| 40              | QPSK       | 1       | 108       | 20.73                   | 20.88                      | 20.85                    |                        |             |  |
| 40              | QPSK       | 1       | 214       | 20.75                   | 20.91                      | 20.82                    |                        |             |  |
| 40              | QPSK       | 108     | 0         | 20.71                   | 20.73                      | 20.79                    | 22.1                   | 0.0         |  |
| 40              | QPSK       | 108     | 54        | 20.71                   | 20.85                      | 20.82                    |                        |             |  |
| 40              | QPSK       | 108     | 108       | 20.67                   | 20.72                      | 20.72                    |                        |             |  |
| 40              | QPSK       | 216     | 0         | 20.69                   | 20.73                      | 20.71                    | 22.1                   | 0.0         |  |
| 40              | 16QAM      | 1       | 1         | 20.72                   | 20.84                      | 20.83                    |                        |             |  |
| 40              | 64QAM      | 1       | 1         | 20.80                   | 20.89                      | 20.78                    |                        |             |  |
| 40              | 256QAM     | 1       | 1         | 18.47                   | 18.58                      | 18.48                    | 19.5                   | 2.6         |  |
| Channel         |            |         |           | 503000                  | 507000                     | 511000                   | Tune-up limit          | MPR         |  |
| Frequency (MHz) |            |         |           | 2515                    | 2535                       | 2555                     | (dBm)                  | (dB)        |  |
| 30              | QPSK       | 1       | 1         | 20.74                   | 20.87                      | 20.80                    | 22.1                   | 0.0         |  |
| Channel         |            |         |           | 502500                  | 507000                     | 511500                   | Tune-up limit          | MPR         |  |
| Frequency (MHz) |            |         |           | 2512.5                  | 2535                       | 2557.5                   | (dBm)                  | (dB)        |  |
| 25              | QPSK       | 1       | 1         | 20.74                   | 20.87                      | 20.84                    | 22.1                   | 0.0         |  |
| Channel         |            |         |           | 502000                  | 507000                     | 512000                   | Tune-up limit          | MPR         |  |
| Frequency (MHz) |            |         |           | 2510                    | 2535                       | 2560                     | (dBm)                  | (dB)        |  |
| 20              | PI/2 BPSK  | 1       | 1         | 20.71                   | 20.86                      | 20.84                    | 22.1                   | 0.0         |  |
| Channel         |            |         |           | 501500                  | 507000                     | 512500                   | Tune-up limit          | MPR         |  |
| Frequency (MHz) |            |         |           | 2507.5                  | 2535                       | 2559.5                   | (dBm)                  | (dB)        |  |
| 15              | QPSK       | 1       | 1         | 20.76                   | 20.82                      | 20.78                    | 22.1                   | 0.0         |  |
| Channel         |            |         |           | 501000                  | 507000                     | 513000                   | Tune-up limit          | MPR         |  |
| Frequency (MHz) |            |         |           | 2505                    | 2535                       | 2565                     | (dBm)                  | (dB)        |  |
| 10              | QPSK       | 1       | 1         | 20.78                   | 20.87                      | 20.78                    | 22.1                   | 0.0         |  |
| Channel         |            |         |           | 500500                  | 507000                     | 513500                   | Tune-up limit          | MPR         |  |
| Frequency (MHz) |            |         |           | 2502.5                  | 2535                       | 2567.5                   | (dBm)                  | (dB)        |  |
| 5               | QPSK       | 1       | 1         | 20.77                   | 20.83                      | 20.85                    | 22.1                   | 0.0         |  |

| n66 Ant1 DSI6   |            |         |           |                             |                                |                              |                        |             |     |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|-----|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel         |            |         |           | 346000                      | 349000                         | 352000                       | 23.4                   | 0.0         |     |
| Frequency (MHz) |            |         |           | 1730                        | 1745                           | 1760                         |                        |             |     |
| 40              | PI/2 BPSK  | 1       | 1         | 22.12                       | 22.34                          | 22.21                        |                        |             |     |
| 40              | PI/2 BPSK  | 1       | 108       | 22.14                       | 22.21                          | 22.01                        | 23.4                   | 0.0         |     |
| 40              | PI/2 BPSK  | 1       | 214       | 21.98                       | 22.11                          | 22.00                        |                        |             |     |
| 40              | PI/2 BPSK  | 108     | 0         | 22.13                       | 22.24                          | 22.10                        |                        |             |     |
| 40              | PI/2 BPSK  | 108     | 54        | 22.16                       | 22.15                          | 22.14                        | 23.4                   | 0.0         |     |
| 40              | PI/2 BPSK  | 108     | 108       | 22.11                       | 22.26                          | 22.22                        |                        |             |     |
| 40              | PI/2 BPSK  | 216     | 0         | 22.18                       | 22.14                          | 22.10                        |                        |             |     |
| 40              | QPSK       | 1       | 1         | 22.36                       | 22.39                          | 22.27                        | 23.4                   | 0.0         |     |
| 40              | QPSK       | 1       | 108       | 22.10                       | 22.22                          | 22.03                        |                        |             |     |
| 40              | QPSK       | 1       | 214       | 22.06                       | 21.95                          | 21.80                        |                        |             |     |
| 40              | QPSK       | 108     | 0         | 22.22                       | 22.28                          | 22.16                        | 23.0                   | 0.4         |     |
| 40              | QPSK       | 108     | 54        | 22.05                       | 22.20                          | 22.18                        |                        |             |     |
| 40              | QPSK       | 108     | 108       | 22.15                       | 22.25                          | 22.11                        |                        |             |     |
| 40              | QPSK       | 216     | 0         | 22.20                       | 22.29                          | 22.17                        | 23.0                   | 0.4         |     |
| 40              | 16QAM      | 1       | 1         | 22.13                       | 22.21                          | 22.13                        |                        |             |     |
| 40              | 64QAM      | 1       | 1         | 20.56                       | 20.66                          | 20.58                        |                        |             |     |
| 40              | 256QAM     | 1       | 1         | 18.65                       | 18.75                          | 18.70                        | 21.5                   |             | 1.9 |
| Channel         |            |         |           | 345000                      | 349000                         | 353000                       | Tune-up limit          | MPR         |     |
| Frequency (MHz) |            |         |           | 1725                        | 1745                           | 1765                         | (dBm)                  | (dB)        |     |
| 30              | QPSK       | 1       | 1         | 22.04                       | 22.07                          | 22.01                        | 23.4                   | 0.0         |     |
| Channel         |            |         |           | 344000                      | 349000                         | 354000                       | Tune-up limit          | MPR         |     |
| Frequency (MHz) |            |         |           | 1720                        | 1745                           | 1770                         | (dBm)                  | (dB)        |     |
| 20              | QPSK       | 1       | 1         | 22.16                       | 22.20                          | 22.07                        | 23.4                   | 0.0         |     |
| Channel         |            |         |           | 343500                      | 349000                         | 354500                       | Tune-up limit          | MPR         |     |
| Frequency (MHz) |            |         |           | 1717.5                      | 1745                           | 1772.5                       | (dBm)                  | (dB)        |     |
| 15              | QPSK       | 1       | 1         | 22.20                       | 22.24                          | 22.14                        | 23.4                   | 0.0         |     |
| Channel         |            |         |           | 343000                      | 349000                         | 355000                       | Tune-up limit          | MPR         |     |
| Frequency (MHz) |            |         |           | 1715                        | 1745                           | 1775                         | (dBm)                  | (dB)        |     |
| 10              | QPSK       | 1       | 1         | 22.18                       | 22.23                          | 22.10                        | 23.4                   | 0.0         |     |
| Channel         |            |         |           | 342500                      | 349000                         | 355500                       | Tune-up limit          | MPR         |     |
| Frequency (MHz) |            |         |           | 1712.5                      | 1745                           | 1777.5                       | (dBm)                  | (dB)        |     |
| 5               | QPSK       | 1       | 1         | 22.04                       | 22.13                          | 22.13                        | 23.4                   | 0.0         |     |

## Part27Q n78 Ant2 DSI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 18.98                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 19.06                          |                              | 20.2                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 18.99                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 19.01                          |                              | 20.2                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 18.98                          |                              | 20.2                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 18.97                          |                              |                        |             |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 19.11                          |                              | 20.2                   | 0.0         |
| 100             | QPSK       | 1       | 1         |                             | 19.25                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 19.05                          |                              | 20.2                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 18.99                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 18.97                          |                              | 20.2                   | 0.0         |
| 100             | QPSK       | 135     | 69        |                             | 19.17                          |                              | 20.2                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 19.11                          |                              |                        |             |
| 100             | QPSK       | 270     | 0         |                             | 19.12                          |                              | 20.2                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 19.13                          |                              | 20.2                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 19.04                          |                              | 20.2                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 18.08                          |                              | 19.5                   | 0.7         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 19.02                       | 19.12                          | 19.00                        | 20.2                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 18.98                       | 19.14                          | 19.09                        | 20.2                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 19.05                       | 19.20                          | 19.05                        | 20.2                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 18.97                       | 19.20                          | 19.09                        | 20.2                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 19.00                       | 19.17                          | 19.06                        | 20.2                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 19.04                       | 19.12                          | 19.06                        | 20.2                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 19.03                       | 19.10                          | 19.01                        | 20.2                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 19.02                       | 19.19                          | 19.00                        | 20.2                   | 0.0         |

## Part27Q n78 Ant3 DSI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 17.09                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 17.07                          |                              | 17.6                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 16.95                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 16.95                          |                              | 17.6                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 17.04                          |                              | 17.6                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 17.02                          |                              | 17.6                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 16.98                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 17.11                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 16.97                          |                              | 17.6                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 17.07                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 16.93                          |                              | 17.6                   | 0.0         |
| 100             | QPSK       | 135     | 69        |                             | 17.05                          |                              | 17.6                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 17.04                          |                              | 17.6                   | 0.0         |
| 100             | QPSK       | 270     | 0         |                             | 17.02                          |                              | 17.6                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 16.92                          |                              | 17.6                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 17.08                          |                              | 17.6                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 16.92                          |                              | 17.6                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 16.99                       | 17.05                          | 16.89                        | 17.6                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 16.98                       | 17.02                          | 16.89                        | 17.6                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 16.91                       | 17.00                          | 16.82                        | 17.6                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 16.92                       | 16.99                          | 16.82                        | 17.6                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 16.91                       | 17.00                          | 16.86                        | 17.6                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 16.96                       | 16.98                          | 16.89                        | 17.6                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 16.91                       | 16.97                          | 16.86                        | 17.6                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 16.98                       | 17.04                          | 16.83                        | 17.6                   | 0.0         |

| n7 DSI6 Ant5 DSI6 |            |         |           |                             |                                |                              |                        |             |
|-------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel           |            |         |           | 504000                      | 507000                         | 510000                       | 20.9                   | 0.0         |
| Frequency (MHz)   |            |         |           | 2520                        | 2535                           | 2550                         |                        |             |
| 40                | PI/2 BPSK  | 1       | 1         | 19.74                       | 19.82                          | 19.67                        | 20.9                   | 0.0         |
| 40                | PI/2 BPSK  | 1       | 108       | 19.76                       | 19.78                          | 19.64                        |                        |             |
| 40                | PI/2 BPSK  | 1       | 214       | 19.73                       | 19.77                          | 19.68                        |                        |             |
| 40                | PI/2 BPSK  | 108     | 0         | 19.70                       | 19.73                          | 19.67                        | 20.9                   | 0.0         |
| 40                | PI/2 BPSK  | 108     | 54        | 19.77                       | 19.79                          | 19.66                        | 20.9                   | 0.0         |
| 40                | PI/2 BPSK  | 108     | 108       | 19.75                       | 19.75                          | 19.72                        | 20.9                   | 0.0         |
| 40                | PI/2 BPSK  | 216     | 0         | 19.70                       | 19.81                          | 19.72                        |                        |             |
| 40                | QPSK       | 1       | 1         | 19.83                       | 19.91                          | 19.78                        | 20.9                   | 0.0         |
| 40                | QPSK       | 1       | 108       | 19.71                       | 19.78                          | 19.69                        |                        |             |
| 40                | QPSK       | 1       | 214       | 19.75                       | 19.77                          | 19.64                        |                        |             |
| 40                | QPSK       | 108     | 0         | 19.70                       | 19.79                          | 19.66                        | 20.9                   | 0.0         |
| 40                | QPSK       | 108     | 54        | 19.69                       | 19.86                          | 19.69                        | 20.9                   | 0.0         |
| 40                | QPSK       | 108     | 108       | 19.71                       | 19.82                          | 19.69                        | 20.9                   | 0.0         |
| 40                | QPSK       | 216     | 0         | 19.77                       | 19.84                          | 19.68                        |                        |             |
| 40                | 16QAM      | 1       | 1         | 19.70                       | 19.77                          | 19.71                        | 20.9                   | 0.0         |
| 40                | 64QAM      | 1       | 1         | 19.73                       | 19.78                          | 19.64                        | 20.9                   | 0.0         |
| 40                | 256QAM     | 1       | 1         | 18.01                       | 18.06                          | 17.99                        | 19.5                   | 1.4         |
| Channel           |            |         |           | 503000                      | 507000                         | 511000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 2515                        | 2535                           | 2555                         | 20.9                   | 0.0         |
| 30                | QPSK       | 1       | 1         | 19.69                       | 19.79                          | 19.67                        |                        |             |
| Channel           |            |         |           | 502500                      | 507000                         | 511500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 2512.5                      | 2535                           | 2557.5                       | 20.9                   | 0.0         |
| 25                | QPSK       | 1       | 1         | 19.77                       | 19.83                          | 19.71                        |                        |             |
| Channel           |            |         |           | 502000                      | 507000                         | 512000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 2510                        | 2535                           | 2560                         | 20.9                   | 0.0         |
| 20                | PI/2 BPSK  | 1       | 1         | 19.74                       | 19.79                          | 19.69                        |                        |             |
| Channel           |            |         |           | 501500                      | 507000                         | 512500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 2507.5                      | 2535                           | 2562.5                       | 20.9                   | 0.0         |
| 15                | QPSK       | 1       | 1         | 19.76                       | 19.85                          | 19.67                        |                        |             |
| Channel           |            |         |           | 501000                      | 507000                         | 513000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 2505                        | 2535                           | 2565                         | 20.9                   | 0.0         |
| 10                | QPSK       | 1       | 1         | 19.70                       | 19.81                          | 19.71                        |                        |             |
| Channel           |            |         |           | 500500                      | 507000                         | 513500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 2502.5                      | 2535                           | 2567.5                       | 20.9                   | 0.0         |
| 5                 | QPSK       | 1       | 1         | 19.77                       | 19.80                          | 19.67                        |                        |             |

## Part27Q n78 Ant5 DSI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 17.17                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 17.07                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 16.95                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 17.08                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 17.03                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 17.01                          |                              | 18.5                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 17.26                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 17.32                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 17.12                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 17.17                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 17.15                          |                              | 17.5                   | 1.0         |
| 100             | QPSK       | 135     | 69        |                             | 17.27                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 17.11                          |                              |                        |             |
| 100             | QPSK       | 270     | 0         |                             | 17.22                          |                              | 17.5                   | 1.0         |
| 100             | 16QAM      | 1       | 1         |                             | 17.20                          |                              | 18.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 17.14                          |                              | 18.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 17.19                          |                              | 18.5                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      |                        |             |
| 90              | QPSK       | 1       | 1         | 17.10                       | 17.19                          | 17.15                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         |                        |             |
| 80              | QPSK       | 1       | 1         | 17.23                       | 17.28                          | 17.06                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      |                        |             |
| 70              | QPSK       | 1       | 1         | 17.23                       | 17.25                          | 17.12                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      |                        |             |
| 60              | QPSK       | 1       | 1         | 17.11                       | 17.21                          | 17.13                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         |                        |             |
| 50              | QPSK       | 1       | 1         | 17.11                       | 17.20                          | 17.10                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      |                        |             |
| 40              | QPSK       | 1       | 1         | 17.12                       | 17.14                          | 17.16                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      |                        |             |
| 30              | QPSK       | 1       | 1         | 17.17                       | 17.17                          | 17.14                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         |                        |             |
| 20              | QPSK       | 1       | 1         | 17.22                       | 17.20                          | 17.17                        | 18.5                   | 0.0         |

## Part27Q n78 Ant7 DSI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633334                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3500.01                        |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         |                             | 19.75                          |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       |                             | 19.69                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       |                             | 19.62                          |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         |                             | 19.12                          |                              | 20.0                   | 0.5         |
| 100             | PI/2 BPSK  | 135     | 69        |                             | 19.69                          |                              | 20.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       |                             | 18.99                          |                              |                        |             |
| 100             | PI/2 BPSK  | 270     | 0         |                             | 19.04                          |                              | 20.0                   | 0.5         |
| 100             | QPSK       | 1       | 1         |                             | 19.81                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 19.78                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 19.67                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 18.71                          |                              | 19.5                   | 1.0         |
| 100             | QPSK       | 135     | 69        |                             | 19.74                          |                              | 20.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 18.52                          |                              |                        |             |
| 100             | QPSK       | 270     | 0         |                             | 18.56                          |                              | 19.5                   | 1.0         |
| 100             | 16QAM      | 1       | 1         |                             | 18.78                          |                              | 19.5                   | 1.0         |
| 100             | 64QAM      | 1       | 1         |                             | 17.43                          |                              | 18.0                   | 2.5         |
| 100             | 256QAM     | 1       | 1         |                             | 15.28                          |                              | 16.0                   | 4.5         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 19.75                       | 19.75                          | 19.70                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 19.71                       | 19.77                          | 19.78                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 19.78                       | 19.70                          | 19.77                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 19.75                       | 19.68                          | 19.78                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 19.69                       | 19.69                          | 19.74                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633334                         | 635334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3500.01                        | 3530.01                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 19.71                       | 19.72                          | 19.78                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633334                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3500.01                        | 3535.02                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 19.75                       | 19.73                          | 19.72                        | 20.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633334                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3500.01                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 19.70                       | 19.67                          | 19.70                        | 20.5                   | 0.0         |

WIFI & Bluetooth Power

| 2.4GHz WLAN |                   |         |                    | Full Power<br>Head Standalone<br>Extremity<br>Standalone&Simultaneous |                  | Head Simultaneous      |                  | Body worn Standalone   |                  | Body worn Simultaneous<br>Hotspot |                  |              |
|-------------|-------------------|---------|--------------------|-----------------------------------------------------------------------|------------------|------------------------|------------------|------------------------|------------------|-----------------------------------|------------------|--------------|
|             | Mode              | Channel | Frequency<br>(MHz) | Average power<br>(dBm)                                                | Tune-Up<br>Limit | Average power<br>(dBm) | Tune-Up<br>Limit | Average<br>power (dBm) | Tune-Up<br>Limit | Average<br>power (dBm)            | Tune-Up<br>Limit | Duty Cycle % |
| 2.4GHz WLAN | 802.11b 1Mbps     | 1       | 2412               | 19.23                                                                 | 20.50            | 15.65                  | 17.00            | 18.76                  | 20.00            | 14.72                             | 16.00            | 100.00       |
|             |                   | 6       | 2437               | 18.92                                                                 | 20.50            | 15.43                  | 17.00            | 18.51                  | 20.00            | 14.46                             | 16.00            |              |
|             |                   | 11      | 2462               | 19.21                                                                 | 20.50            | 15.63                  | 17.00            | 18.72                  | 20.00            | 14.62                             | 16.00            |              |
|             | 802.11g 6Mbps     | 1       | 2412               | 18.09                                                                 | 19.50            | Not Required           | 17.00            | 18.29                  | 19.50            | Not Required                      | 16.00            | 98.28        |
|             |                   | 6       | 2437               | 18.94                                                                 | 20.50            |                        | 17.00            | 18.42                  | 20.00            |                                   | 16.00            |              |
|             |                   | 10      | 2457               | 17.31                                                                 | 19.00            |                        | 17.00            | 17.51                  | 19.00            |                                   | 16.00            |              |
|             |                   | 11      | 2462               | 15.36                                                                 | 17.00            |                        | 17.00            | 15.56                  | 17.00            |                                   | 16.00            |              |
|             | 802.11n-HT20 MCS0 | 1       | 2412               | 17.39                                                                 | 19.00            | Not Required           | 17.00            |                        | 19.00            | Not Required                      | 16.00            | 98.16        |
|             |                   | 6       | 2437               | 18.76                                                                 | 20.50            |                        | 17.00            |                        | 20.00            |                                   | 16.00            |              |
|             |                   | 10      | 2457               | 17.93                                                                 | 19.50            |                        | 17.00            |                        | 19.50            |                                   | 16.00            |              |
|             |                   | 11      | 2462               | 14.70                                                                 | 16.50            |                        | 16.50            |                        | 16.50            |                                   | 16.00            |              |
|             | 802.11n-HT40 MCS0 | 3       | 2422               | 14.44                                                                 | 16.00            | Not Required           | 16.00            |                        | 16.00            | Not Required                      | 16.00            | 94.93        |
|             |                   | 6       | 2437               | 15.46                                                                 | 17.00            |                        | 17.00            |                        | 17.00            |                                   | 16.00            |              |
|             |                   | 9       | 2452               | 12.89                                                                 | 14.50            |                        | 14.50            |                        | 14.50            |                                   | 14.50            |              |
|             |                   |         |                    |                                                                       |                  |                        |                  |                        |                  |                                   |                  |              |
|             |                   |         |                    |                                                                       |                  |                        |                  |                        |                  |                                   |                  |              |
|             |                   |         |                    |                                                                       |                  |                        |                  |                        |                  |                                   |                  |              |
|             |                   |         |                    |                                                                       |                  |                        |                  |                        |                  |                                   |                  |              |
|             |                   |         |                    |                                                                       |                  |                        |                  |                        |                  |                                   |                  |              |
|             |                   |         |                    |                                                                       |                  |                        |                  |                        |                  |                                   |                  |              |

| 5.2GHz WLAN |                     |         |                    | Full Power<br>Extremity Standalone |                  | Head Standalone        |                  | Head Simultaneous<br>Body worn Standalone |                  | Body worn Simultaneous<br>Hotspot |                  | Extremity Simultaneous |                  |              |
|-------------|---------------------|---------|--------------------|------------------------------------|------------------|------------------------|------------------|-------------------------------------------|------------------|-----------------------------------|------------------|------------------------|------------------|--------------|
|             | Mode                | Channel | Frequency<br>(MHz) | Average power<br>(dBm)             | Tune-Up<br>Limit | Average power<br>(dBm) | Tune-Up<br>Limit | Average<br>power (dBm)                    | Tune-Up<br>Limit | Average<br>power (dBm)            | Tune-Up<br>Limit | Average<br>power (dBm) | Tune-Up<br>Limit | Duty Cycle % |
| 5.2GHz WLAN | 802.11a 6Mbps       | 36      | 5180               | 18.06                              | 19.50            | Not Required           | 16.00            | Not Required                              | 14.00            | Not Required                      | 11.00            | 15.00                  | 15.00            | 98.26        |
|             |                     | 40      | 5200               | 17.87                              | 19.50            |                        | 16.00            |                                           | 14.00            |                                   | 11.00            |                        |                  |              |
|             |                     | 44      | 5220               | 17.86                              | 19.50            |                        | 16.00            |                                           | 14.00            |                                   | 11.00            |                        |                  |              |
|             |                     | 48      | 5240               | 17.47                              | 19.00            |                        | 16.00            |                                           | 14.00            |                                   | 11.00            |                        |                  |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180               | 17.65                              | 19.50            | Not Required           | 16.00            | Not Required                              | 14.00            | Not Required                      | 11.00            | 15.00                  | 15.00            | 98.14        |
|             |                     | 40      | 5200               | 17.78                              | 19.50            |                        | 16.00            |                                           | 14.00            |                                   | 11.00            |                        |                  |              |
|             |                     | 44      | 5220               | 17.77                              | 19.50            |                        | 16.00            |                                           | 14.00            |                                   | 11.00            |                        |                  |              |
|             |                     | 48      | 5240               | 17.33                              | 19.00            |                        | 16.00            |                                           | 14.00            |                                   | 11.00            |                        |                  |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190               | 18.24                              | 19.50            | Not Required           | 16.00            | Not Required                              | 14.00            | Not Required                      | 11.00            | 15.00                  | 15.00            | 96.30        |
|             |                     | 46      | 5230               | 18.19                              | 19.50            |                        | 16.00            |                                           | 14.00            |                                   | 11.00            |                        |                  |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180               | 17.92                              | 19.50            | Not Required           | 16.00            | Not Required                              | 14.00            | Not Required                      | 11.00            | 15.00                  | 15.00            | 98.15        |
|             |                     | 40      | 5200               | 17.82                              | 19.50            |                        | 16.00            |                                           | 14.00            |                                   | 11.00            |                        |                  |              |
|             |                     | 44      | 5220               | 17.78                              | 19.50            |                        | 16.00            |                                           | 14.00            |                                   | 11.00            |                        |                  |              |
|             |                     | 48      | 5240               | 17.49                              | 19.00            |                        | 16.00            |                                           | 14.00            |                                   | 11.00            |                        |                  |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190               | 17.35                              | 19.00            | Not Required           | 16.00            | Not Required                              | 14.00            | Not Required                      | 11.00            | 15.00                  | 15.00            | 96.30        |
|             |                     | 46      | 5230               | 17.17                              | 18.50            |                        | 16.00            |                                           | 14.00            |                                   | 11.00            |                        |                  |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210               | 16.15                              | 17.00            | 15.15                  | 16.00            | 13.02                                     | 14.00            | 10.33                             | 11.00            | 14.06                  | 15.00            | 92.17        |

| 5.3GHz WLAN |                     |         |                    | Full Power<br>Extremity Standalone |                  | Head Standalone        |                  | Head Simultaneous<br>Body worn Standalone |                  | Body worn Simultaneous |                  | Extremity Simultaneous |                  |              |
|-------------|---------------------|---------|--------------------|------------------------------------|------------------|------------------------|------------------|-------------------------------------------|------------------|------------------------|------------------|------------------------|------------------|--------------|
|             | Mode                | Channel | Frequency<br>(MHz) | Average power<br>(dBm)             | Tune-Up<br>Limit | Average power<br>(dBm) | Tune-Up<br>Limit | Average<br>power (dBm)                    | Tune-Up<br>Limit | Average<br>power (dBm) | Tune-Up<br>Limit | Average<br>power (dBm) | Tune-Up<br>Limit | Duty Cycle % |
| 5.3GHz WLAN | 802.11a 6Mbps       | 52      | 5260               | 17.84                              | 19.50            | Not Required           | 16.00            | Not Required                              | 14.00            | Not Required           | 11.00            | 15.00                  | 15.00            | 98.26        |
|             |                     | 56      | 5280               | 17.68                              | 19.00            |                        | 16.00            |                                           | 14.00            |                        | 11.00            |                        |                  |              |
|             |                     | 60      | 5300               | 17.71                              | 19.00            |                        | 16.00            |                                           | 14.00            |                        | 11.00            |                        |                  |              |
|             |                     | 64      | 5320               | 17.78                              | 19.50            |                        | 16.00            |                                           | 14.00            |                        | 11.00            |                        |                  |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260               | 17.88                              | 19.50            | Not Required           | 16.00            | Not Required                              | 14.00            | Not Required           | 11.00            | 15.00                  | 15.00            | 98.14        |
|             |                     | 56      | 5280               | 17.73                              | 19.00            |                        | 16.00            |                                           | 14.00            |                        | 11.00            |                        |                  |              |
|             |                     | 60      | 5300               | 17.60                              | 19.00            |                        | 16.00            |                                           | 14.00            |                        | 11.00            |                        |                  |              |
|             |                     | 64      | 5320               | 17.58                              | 19.00            |                        | 16.00            |                                           | 14.00            |                        | 11.00            |                        |                  |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270               | 17.89                              | 19.50            | Not Required           | 16.00            | Not Required                              | 14.00            | Not Required           | 11.00            | 15.00                  | 15.00            | 96.30        |
|             |                     | 62      | 5310               | 16.60                              | 18.00            |                        | 16.00            |                                           | 14.00            |                        | 11.00            |                        |                  |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260               | 17.89                              | 19.50            | Not Required           | 16.00            | Not Required                              | 14.00            | Not Required           | 11.00            | 15.00                  | 15.00            | 98.15        |
|             |                     | 56      | 5280               | 17.75                              | 19.50            |                        | 16.00            |                                           | 14.00            |                        | 11.00            |                        |                  |              |
|             |                     | 60      | 5300               | 17.62                              | 19.00            |                        | 16.00            |                                           | 14.00            |                        | 11.00            |                        |                  |              |
|             |                     | 64      | 5320               | 17.59                              | 19.00            |                        | 16.00            |                                           | 14.00            |                        | 11.00            |                        |                  |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270               | 16.88                              | 18.50            | Not Required           | 16.00            | Not Required                              | 14.00            | Not Required           | 11.00            | 15.00                  | 15.00            | 96.30        |
|             |                     | 62      | 5310               | 16.57                              | 18.00            |                        | 16.00            |                                           | 14.00            |                        | 11.00            |                        |                  |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290               | 15.51                              | 17.00            | 14.55                  | 16.00            | 12.09                                     | 14.00            | 9.53                   | 11.00            | 13.73                  | 15.00            | 92.17        |

| 5.5GHz WLAN         |                     |         |                    | Full Power<br>Extremity Standalone |                  | Head Standalone        |                  | Head Simultaneous      |                  | Body worn Standalone   |                  | Body worn Simultaneous |                  | Extremity Simultaneous |                  |              |
|---------------------|---------------------|---------|--------------------|------------------------------------|------------------|------------------------|------------------|------------------------|------------------|------------------------|------------------|------------------------|------------------|------------------------|------------------|--------------|
|                     | Mode                | Channel | Frequency<br>(MHz) | Average power<br>(dBm)             | Tune-Up<br>Limit | Average power<br>(dBm) | Tune-Up<br>Limit | Average<br>power (dBm) | Tune-Up<br>Limit | Average<br>power (dBm) | Tune-Up<br>Limit | Average<br>power (dBm) | Tune-Up<br>Limit | Average<br>power (dBm) | Tune-Up<br>Limit | Duty Cycle % |
| 5.5GHz WLAN         | 802.11a 6Mbps       | 100     | 5500               | 17.99                              | 19.50            | Not Required           | 15.50            | Not Required           | 13.00            | Not Required           | 15.00            | Not Required           | 11.50            | Not Required           | 17.50            | 98.26        |
|                     |                     | 116     | 5580               | 17.73                              | 19.00            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     |                     | 124     | 5620               | 17.54                              | 19.00            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     |                     | 132     | 5660               | 17.93                              | 19.50            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     |                     | 140     | 5700               | 18.20                              | 19.50            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     |                     | 144     | 5720               | 18.18                              | 19.50            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     | 802.11n-HT20 MCS0   | 100     | 5500               | 17.85                              | 19.50            | Not Required           | 15.50            | Not Required           | 13.00            | Not Required           | 15.00            | Not Required           | 11.50            | Not Required           | 17.50            | 98.14        |
|                     |                     | 116     | 5580               | 17.53                              | 19.00            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     |                     | 124     | 5620               | 17.51                              | 19.00            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     |                     | 132     | 5660               | 17.72                              | 19.00            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     |                     | 140     | 5700               | 17.99                              | 19.50            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     |                     | 144     | 5720               | 17.94                              | 19.50            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     | 802.11n-HT40 MCS0   | 102     | 5510               | 15.89                              | 17.50            | Not Required           | 15.50            | Not Required           | 13.00            | Not Required           | 15.00            | Not Required           | 11.50            | Not Required           | 17.50            | 96.30        |
|                     |                     | 110     | 5550               | 17.70                              | 19.00            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     |                     | 126     | 5630               | 17.59                              | 19.00            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     |                     | 134     | 5670               | 17.81                              | 19.50            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     |                     | 142     | 5710               | 18.28                              | 19.50            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     |                     |         |                    |                                    |                  |                        |                  |                        |                  |                        |                  |                        |                  |                        |                  |              |
|                     | 802.11ac-VHT20 MCS0 | 100     | 5500               | 17.90                              | 19.50            | Not Required           | 15.50            | Not Required           | 13.00            | Not Required           | 15.00            | Not Required           | 11.50            | Not Required           | 17.50            | 98.15        |
|                     |                     | 116     | 5580               | 17.56                              | 19.00            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     |                     | 124     | 5620               | 17.53                              | 19.00            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     |                     | 132     | 5660               | 17.73                              | 19.00            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     |                     | 140     | 5700               | 18.01                              | 19.50            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
|                     |                     | 144     | 5720               | 18.00                              | 19.50            |                        | 15.50            |                        | 13.00            |                        | 15.00            |                        | 11.50            |                        | 17.50            |              |
| 802.11ac-VHT40 MCS0 | 102                 | 5510    | 15.85              | 17.50                              | Not Required     | 15.50                  | Not Required     | 13.00                  | Not Required     | 15.00                  | Not Required     | 11.50                  | Not Required     | 17.50                  | 96.30            |              |
|                     | 110                 | 5550    | 16.80              | 18.50                              |                  | 15.50                  |                  | 13.00                  |                  | 15.00                  |                  | 11.50                  |                  | 17.50                  |                  |              |
|                     | 126                 | 5630    | 16.62              | 18.00                              |                  | 15.50                  |                  | 13.00                  |                  | 15.00                  |                  | 11.50                  |                  | 17.50                  |                  |              |
|                     | 134                 | 5670    | 16.81              | 18.50                              |                  | 15.50                  |                  | 13.00                  |                  | 15.00                  |                  | 11.50                  |                  | 17.50                  |                  |              |
|                     | 142                 | 5710    | 17.34              | 19.00                              |                  | 15.50                  |                  | 13.00                  |                  | 15.00                  |                  | 11.50                  |                  | 17.50                  |                  |              |
|                     |                     |         |                    |                                    |                  |                        |                  |                        |                  |                        |                  |                        |                  |                        |                  |              |
| 802.11ac-VHT80 MCS0 | 106                 | 5530    | 13.92              | 15.50                              | 13.92            | 15.50                  | 11.57            | 13.00                  | 13.51            | 15.00                  | 10.41            | 11.50                  | 13.92            | 15.50                  | 92.17            |              |
|                     | 122                 | 5610    | 15.20              | 16.50                              | 13.59            | 15.50                  | 11.11            | 13.00                  | 13.15            | 15.00                  | 9.73             | 11.50                  | 15.20            | 16.50                  |                  |              |
|                     | 138                 | 5690    | 15.90              | 17.50                              | 14.20            | 15.50                  | 12.01            | 13.00                  | 13.97            | 15.00                  | 10.75            | 11.50                  | 15.90            | 17.50                  |                  |              |



| 5.8GHz WLAN |                        |         |                    | Full Power<br>Extremity Standalone |                  | Head Standalone        |                  | Head Simultaneous      |                  | Body worn Standalone<br>Extremity Simultaneous |                  | Body worn Simultaneous<br>Hotspot |                  |              |
|-------------|------------------------|---------|--------------------|------------------------------------|------------------|------------------------|------------------|------------------------|------------------|------------------------------------------------|------------------|-----------------------------------|------------------|--------------|
| 5.8GHz WLAN | Mode                   | Channel | Frequency<br>(MHz) | Average power<br>(dBm)             | Tune-Up<br>Limit | Average power<br>(dBm) | Tune-Up<br>Limit | Average<br>power (dBm) | Tune-Up<br>Limit | Average<br>power (dBm)                         | Tune-Up<br>Limit | Average<br>power (dBm)            | Tune-Up<br>Limit | Duty Cycle % |
|             | 802.11e 6Mbps          | 149     | 5745               | 18.06                              | 19.50            | Not Required           | 18.00            | Not Required           | 14.50            | Not Required                                   | 16.00            | Not Required                      | 12.00            | 98.26        |
|             |                        | 157     | 5785               | 17.93                              | 19.50            |                        | 18.00            |                        | 14.50            |                                                | 16.00            |                                   | 12.00            |              |
|             |                        | 165     | 5825               | 17.59                              | 19.00            |                        | 18.00            |                        | 14.50            |                                                | 16.00            |                                   | 12.00            |              |
|             | 802.11n-HT20 MCS0      | 149     | 5745               | 17.84                              | 19.50            | Not Required           | 18.00            | Not Required           | 14.50            | Not Required                                   | 16.00            | Not Required                      | 12.00            | 98.14        |
|             |                        | 157     | 5785               | 17.70                              | 19.00            |                        | 18.00            |                        | 14.50            |                                                | 16.00            |                                   | 12.00            |              |
|             |                        | 165     | 5825               | 17.55                              | 19.00            |                        | 18.00            |                        | 14.50            |                                                | 16.00            |                                   | 12.00            |              |
|             | 802.11n-HT40 MCS0      | 151     | 5755               | 18.35                              | 20.00            | Not Required           | 16.41            | Not Required           | 14.50            | Not Required                                   | 16.00            | Not Required                      | 12.00            | 96.30        |
|             |                        | 159     | 5795               | 18.25                              | 20.00            |                        | 16.25            |                        | 14.50            |                                                | 16.00            |                                   | 12.00            |              |
|             |                        | 149     | 5745               | 17.85                              | 19.50            |                        | 18.00            |                        | 14.50            |                                                | 16.00            |                                   | 12.00            |              |
|             | 802.11ac-VHT20<br>MCS0 | 149     | 5745               | 17.71                              | 19.00            | Not Required           | 18.00            | Not Required           | 14.50            | Not Required                                   | 16.00            | Not Required                      | 12.00            | 98.15        |
|             |                        | 157     | 5785               | 17.71                              | 19.00            |                        | 18.00            |                        | 14.50            |                                                | 16.00            |                                   | 12.00            |              |
|             |                        | 165     | 5825               | 17.56                              | 19.00            |                        | 18.00            |                        | 14.50            |                                                | 16.00            |                                   | 12.00            |              |
|             | 802.11ac-VHT40<br>MCS0 | 151     | 5755               | 17.17                              | 18.50            | Not Required           | 18.00            | Not Required           | 14.50            | Not Required                                   | 16.00            | Not Required                      | 12.00            | 96.30        |
|             |                        | 159     | 5795               | 16.88                              | 18.50            |                        | 18.00            |                        | 14.50            |                                                | 16.00            |                                   | 12.00            |              |
|             |                        | 155     | 5775               | 16.24                              | 17.50            |                        | 17.50            | 13.72                  | 14.50            | 14.98                                          | 16.00            | 11.15                             | 12.00            | 92.17        |

BT BR/EDR

| Mode          | Channel | Frequency<br>(MHz) | Average power (dBm) |       |       |
|---------------|---------|--------------------|---------------------|-------|-------|
|               |         |                    | 1Mbps               | 2Mbps | 3Mbps |
| BR / EDR      | CH 00   | 2402               | 12.40               | 9.23  | 9.36  |
|               | CH 39   | 2441               | 11.89               | 9.02  | 9.43  |
|               | CH 78   | 2480               | 12.36               | 9.41  | 9.55  |
| Tune-up Limit |         |                    | 13                  | 10.5  | 10.5  |

BLE\_1M

| Mode          | Channel | Frequency<br>(MHz) | Average power (dBm) |  |
|---------------|---------|--------------------|---------------------|--|
|               |         |                    | GFSK                |  |
| LE            | CH 00   | 2402               | 1.49                |  |
|               | CH 19   | 2440               | 1.58                |  |
|               | CH 39   | 2480               | 2.61                |  |
| Tune-up Limit |         |                    | 3                   |  |

BLE\_2M

| Mode          | Channel | Frequency<br>(MHz) | Average power (dBm) |       |
|---------------|---------|--------------------|---------------------|-------|
|               |         |                    | 1Mbps               | 2Mbps |
| LE            | CH 00   | 2402               | 1.45                |       |
|               | CH 19   | 2440               | 1.61                |       |
|               | CH 39   | 2480               | 2.64                |       |
| Tune-up Limit |         |                    | 3.00                |       |