

Full & Default Power Mode

| GSM850 Ant1 Default  |                           |       |       |                           |                           |       |       |                           |       |
|----------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|-------|
| GSM850<br>TX Channel | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |       |
|                      | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |       |
| Frequency (MHz)      | 924.2                     | 930.4 | 948.8 | 924.2                     | 930.4                     | 948.8 | 924.2 | 930.4                     | 948.8 |
| GSM 1 Tx slot        | 32.24                     | 32.41 | 32.57 | 33.50                     | 33.24                     | 33.41 | 33.57 | 34.50                     |       |
| GPRS 1 Tx slot       | 32.28                     | 32.49 | 32.63 | 33.50                     | 33.28                     | 33.49 | 33.63 | 34.50                     |       |
| GPRS 2 Tx slots      | 29.81                     | 29.88 | 30.09 | 30.50                     | 23.81                     | 23.88 | 24.09 | 24.50                     |       |
| GPRS 3 Tx slots      | 27.84                     | 27.62 | 27.63 | 28.50                     | 23.38                     | 23.36 | 23.57 | 24.24                     |       |
| GPRS 4 Tx slots      | 26.45                     | 26.74 | 26.71 | 27.50                     | 23.45                     | 23.74 | 23.71 | 24.50                     |       |
| EDGE 1 Tx slot       | 26.80                     | 26.74 | 26.75 | 28.00                     | 17.80                     | 17.74 | 17.75 | 19.00                     |       |
| EDGE 2 Tx slots      | 24.21                     | 24.12 | 24.30 | 25.00                     | 18.21                     | 18.12 | 18.30 | 19.00                     |       |
| EDGE 3 Tx slots      | 22.13                     | 22.06 | 22.08 | 23.00                     | 17.87                     | 17.80 | 17.82 | 18.74                     |       |
| EDGE 4 Tx slots      | 20.73                     | 20.78 | 20.98 | 22.00                     | 17.73                     | 17.78 | 17.98 | 19.00                     |       |

  

| GSM1900 Ant1 Default  |                           |       |        |                           |                           |        |        |                           |        |
|-----------------------|---------------------------|-------|--------|---------------------------|---------------------------|--------|--------|---------------------------|--------|
| GSM1900<br>TX Channel | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |        |        | Tune-up<br>Limit<br>(dBm) |        |
|                       | 512                       | 861   | 810    |                           | 512                       | 861    | 810    |                           |        |
| Frequency (MHz)       | 1850.2                    | 1860  | 1909.8 | 1850.2                    | 1860                      | 1909.8 | 1850.2 | 1860                      | 1909.8 |
| GSM 1 Tx slot         | 28.78                     | 29.04 | 29.21  | 30.50                     | 19.78                     | 20.04  | 20.21  | 21.50                     |        |
| GPRS 1 Tx slot        | 28.78                     | 29.03 | 29.16  | 30.50                     | 19.78                     | 20.03  | 20.16  | 21.50                     |        |
| GPRS 2 Tx slots       | 26.01                     | 26.26 | 26.42  | 27.50                     | 20.01                     | 20.26  | 20.42  | 21.50                     |        |
| GPRS 3 Tx slots       | 24.26                     | 24.21 | 24.58  | 25.00                     | 20.00                     | 19.95  | 20.32  | 21.24                     |        |
| GPRS 4 Tx slots       | 23.15                     | 23.44 | 23.41  | 24.50                     | 20.15                     | 20.44  | 20.41  | 21.50                     |        |
| EDGE 1 Tx slot        | 25.84                     | 25.76 | 26.13  | 27.00                     | 16.84                     | 16.76  | 17.13  | 18.00                     |        |
| EDGE 2 Tx slots       | 22.70                     | 22.53 | 22.86  | 24.00                     | 16.70                     | 16.53  | 16.96  | 18.00                     |        |
| EDGE 3 Tx slots       | 20.97                     | 20.71 | 21.12  | 22.00                     | 16.71                     | 16.45  | 16.86  | 17.74                     |        |
| EDGE 4 Tx slots       | 20.04                     | 20.06 | 20.19  | 21.00                     | 17.04                     | 17.06  | 17.19  | 18.00                     |        |

  

| Band        | TX Channel            | WCDMA II Ant1 Default |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV Ant1 Default |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V Ant1 Default |       |       | Tune-up<br>Limit<br>(dBm) |
|-------------|-----------------------|-----------------------|-------|--------|---------------------------|-----------------------|--------|--------|---------------------------|----------------------|-------|-------|---------------------------|
|             |                       | 9662                  | 9400  | 9538   |                           | 1312                  | 1413   | 1513   |                           | 4132                 | 4182  | 4233  |                           |
|             | Rx Channel            | 9662                  | 9600  | 9938   |                           | 1537                  | 1638   | 1738   |                           | 4357                 | 4407  | 4458  |                           |
|             | Frequency (MHz)       | 1852.4                | 1860  | 1909.8 |                           | 1772.4                | 1782.2 | 1822.8 |                           | 386.4                | 393.4 | 398.8 |                           |
| 3GPP Rel 9E | AMR 12.2Kbps          | 23.46                 | 23.58 | 23.54  | 25.00                     | 23.54                 | 23.71  | 23.58  | 25.00                     | 23.55                | 23.68 | 23.81 | 25.00                     |
| 3GPP Rel 9E | AMR 12.2Kbps          | 23.54                 | 23.65 | 23.64  | 25.00                     | 23.76                 | 23.77  | 23.67  | 25.00                     | 23.56                | 23.69 | 23.65 | 25.00                     |
| 3GPP Rel 6  | HSDPA Subtest-1       | 22.48                 | 22.55 | 22.53  | 24.00                     | 22.64                 | 22.79  | 22.75  | 24.00                     | 22.68                | 22.75 | 22.71 | 24.00                     |
| 3GPP Rel 6  | HSDPA Subtest-2       | 22.50                 | 22.53 | 22.41  | 24.00                     | 22.59                 | 22.70  | 22.64  | 24.00                     | 22.63                | 22.66 | 22.66 | 24.00                     |
| 3GPP Rel 6  | HSDPA Subtest-3       | 21.95                 | 22.08 | 22.06  | 23.50                     | 22.15                 | 22.25  | 22.15  | 23.50                     | 22.15                | 22.19 | 22.19 | 23.50                     |
| 3GPP Rel 6  | HSDPA Subtest-4       | 21.93                 | 22.05 | 21.93  | 23.50                     | 22.13                 | 22.19  | 22.13  | 23.50                     | 22.12                | 22.21 | 22.11 | 23.50                     |
| 3GPP Rel 6  | DC-HSDPA Subtest-1    | 22.42                 | 22.50 | 22.51  | 24.00                     | 22.66                 | 22.69  | 22.60  | 24.00                     | 22.63                | 22.68 | 22.66 | 24.00                     |
| 3GPP Rel 6  | DC-HSDPA Subtest-2    | 22.41                 | 22.45 | 22.41  | 24.00                     | 22.57                 | 22.65  | 22.63  | 24.00                     | 22.54                | 22.58 | 22.53 | 24.00                     |
| 3GPP Rel 6  | DC-HSDPA Subtest-3    | 21.92                 | 22.06 | 21.96  | 23.50                     | 22.05                 | 22.20  | 22.05  | 23.50                     | 22.02                | 22.19 | 22.03 | 23.50                     |
| 3GPP Rel 6  | DC-HSDPA Subtest-4    | 21.87                 | 21.99 | 21.91  | 23.50                     | 22.01                 | 22.06  | 22.06  | 23.50                     | 22.00                | 22.14 | 22.04 | 23.50                     |
| 3GPP Rel 6  | HSUPA Subtest-1       | 22.36                 | 22.41 | 22.39  | 24.00                     | 22.47                 | 22.60  | 22.57  | 24.00                     | 22.49                | 22.62 | 22.60 | 24.00                     |
| 3GPP Rel 6  | HSUPA Subtest-2       | 20.46                 | 20.61 | 20.55  | 22.00                     | 20.84                 | 20.71  | 20.62  | 22.00                     | 20.69                | 20.77 | 20.61 | 22.00                     |
| 3GPP Rel 6  | HSUPA Subtest-3       | 21.58                 | 21.68 | 21.58  | 23.00                     | 21.72                 | 21.81  | 21.76  | 23.00                     | 21.72                | 21.73 | 21.75 | 23.00                     |
| 3GPP Rel 6  | HSUPA Subtest-4       | 20.38                 | 20.55 | 20.38  | 22.00                     | 20.55                 | 20.68  | 20.58  | 22.00                     | 20.59                | 20.69 | 20.60 | 22.00                     |
| 3GPP Rel 6  | HSUPA Subtest-5       | 22.39                 | 22.47 | 22.38  | 24.00                     | 22.58                 | 22.65  | 22.57  | 24.00                     | 22.59                | 22.63 | 22.64 | 24.00                     |
| 3GPP Rel 7  | HSPA+ (MCM) Subtest-1 | 19.98                 | 20.13 | 20.06  | 21.00                     | 20.22                 | 20.34  | 20.26  | 21.50                     | 20.18                | 20.36 | 20.20 | 21.50                     |



| Band 2 Ant1 Default |            |         |           |                     |                        |                      |                     |          |  |  |
|---------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|--|
| BW (MHz)            | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Turn-up limit (dBm) | MPR (dB) |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 20                  | QPSK       | 1       | 0         | 24.14               | 24.27                  | 24.05                |                     |          |  |  |
| 20                  | QPSK       | 1       | 49        | 24.05               | 24.18                  | 23.90                | 25.5                | 0        |  |  |
| 20                  | QPSK       | 1       | 99        | 24.01               | 24.24                  | 23.97                |                     |          |  |  |
| 20                  | QPSK       | 50      | 0         | 23.18               | 23.25                  | 23.16                |                     |          |  |  |
| 20                  | QPSK       | 50      | 24        | 23.04               | 23.21                  | 23.04                | 24.5                | 1        |  |  |
| 20                  | QPSK       | 50      | 60        | 23.05               | 23.11                  | 23.08                |                     |          |  |  |
| 20                  | QPSK       | 100     | 0         | 23.20               | 23.26                  | 23.13                |                     |          |  |  |
| 20                  | 16QAM      | 1       | 0         | 22.99               | 23.03                  | 22.96                |                     |          |  |  |
| 20                  | 16QAM      | 1       | 49        | 22.98               | 22.93                  | 22.91                | 24.5                | 1        |  |  |
| 20                  | 16QAM      | 1       | 99        | 22.89               | 22.88                  | 22.84                |                     |          |  |  |
| 20                  | 16QAM      | 50      | 0         | 22.19               | 22.33                  | 22.22                |                     |          |  |  |
| 20                  | 16QAM      | 50      | 24        | 22.05               | 22.28                  | 22.11                |                     |          |  |  |
| 20                  | 16QAM      | 50      | 60        | 22.09               | 22.26                  | 22.13                | 23.5                | 2        |  |  |
| 20                  | 16QAM      | 100     | 0         | 22.19               | 22.25                  | 22.11                |                     |          |  |  |
| 20                  | 64QAM      | 1       | 0         | 22.04               | 22.15                  | 22.05                |                     |          |  |  |
| 20                  | 64QAM      | 1       | 49        | 21.98               | 22.11                  | 21.97                | 23.5                | 2        |  |  |
| 20                  | 64QAM      | 1       | 99        | 21.83               | 22.01                  | 22.00                |                     |          |  |  |
| 20                  | 64QAM      | 50      | 0         | 21.18               | 21.32                  | 21.10                |                     |          |  |  |
| 20                  | 64QAM      | 50      | 24        | 21.14               | 21.21                  | 21.12                | 22.5                | 3        |  |  |
| 20                  | 64QAM      | 50      | 60        | 21.11               | 21.24                  | 21.10                |                     |          |  |  |
| 20                  | 64QAM      | 100     | 0         | 21.01               | 21.11                  | 21.05                |                     |          |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 15                  | QPSK       | 1       | 0         | 24.06               | 24.22                  | 23.96                |                     |          |  |  |
| 15                  | QPSK       | 1       | 37        | 23.83               | 24.15                  | 23.79                | 25.5                | 0        |  |  |
| 15                  | QPSK       | 1       | 74        | 23.80               | 24.19                  | 23.78                |                     |          |  |  |
| 15                  | QPSK       | 36      | 0         | 23.06               | 23.19                  | 23.07                |                     |          |  |  |
| 15                  | QPSK       | 36      | 20        | 22.92               | 22.89                  | 22.97                | 24.5                | 1        |  |  |
| 15                  | QPSK       | 36      | 39        | 23.01               | 22.92                  | 22.97                |                     |          |  |  |
| 15                  | QPSK       | 75      | 0         | 23.04               | 23.22                  | 23.07                |                     |          |  |  |
| 15                  | 16QAM      | 1       | 0         | 22.28               | 22.28                  | 22.28                | 24.5                | 1        |  |  |
| 15                  | 16QAM      | 1       | 37        | 22.93               | 22.74                  | 22.87                |                     |          |  |  |
| 15                  | 16QAM      | 1       | 74        | 22.86               | 22.81                  | 22.76                | 24.5                | 2        |  |  |
| 15                  | 16QAM      | 36      | 0         | 22.11               | 22.29                  | 22.08                |                     |          |  |  |
| 15                  | 16QAM      | 36      | 20        | 21.97               | 22.15                  | 22.05                | 23.5                | 2        |  |  |
| 15                  | 16QAM      | 36      | 39        | 21.89               | 22.14                  | 21.95                |                     |          |  |  |
| 15                  | 16QAM      | 75      | 0         | 22.04               | 22.22                  | 21.93                |                     |          |  |  |
| 15                  | 16QAM      | 75      | 0         | 21.87               | 21.98                  | 21.91                | 24.5                | 2        |  |  |
| 15                  | 64QAM      | 1       | 37        | 21.89               | 22.00                  | 21.79                | 23.5                | 2        |  |  |
| 15                  | 64QAM      | 1       | 74        | 21.77               | 21.83                  | 21.85                |                     |          |  |  |
| 15                  | 64QAM      | 36      | 0         | 21.00               | 21.23                  | 21.11                |                     |          |  |  |
| 15                  | 64QAM      | 36      | 20        | 20.92               | 21.16                  | 21.03                | 22.5                | 3        |  |  |
| 15                  | 64QAM      | 36      | 39        | 21.00               | 21.05                  | 20.95                |                     |          |  |  |
| 15                  | 64QAM      | 75      | 0         | 20.90               | 20.98                  | 20.98                |                     |          |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 10                  | QPSK       | 1       | 0         | 24.01               | 24.20                  | 23.96                |                     |          |  |  |
| 10                  | QPSK       | 1       | 25        | 23.87               | 24.09                  | 23.87                | 25.5                | 0        |  |  |
| 10                  | QPSK       | 1       | 49        | 23.88               | 24.10                  | 23.88                |                     |          |  |  |
| 10                  | QPSK       | 25      | 0         | 23.14               | 23.07                  | 22.98                |                     |          |  |  |
| 10                  | QPSK       | 25      | 12        | 22.95               | 22.98                  | 22.92                | 24.5                | 1        |  |  |
| 10                  | QPSK       | 25      | 25        | 22.98               | 23.00                  | 22.93                |                     |          |  |  |
| 10                  | QPSK       | 50      | 0         | 22.98               | 23.13                  | 23.06                |                     |          |  |  |
| 10                  | 16QAM      | 1       | 0         | 22.78               | 22.92                  | 22.89                |                     |          |  |  |
| 10                  | 16QAM      | 1       | 25        | 22.83               | 22.83                  | 22.81                | 24.5                | 1        |  |  |
| 10                  | 16QAM      | 1       | 49        | 22.78               | 22.72                  | 22.71                |                     |          |  |  |
| 10                  | 16QAM      | 25      | 0         | 22.01               | 22.22                  | 22.19                |                     |          |  |  |
| 10                  | 16QAM      | 25      | 12        | 21.92               | 22.06                  | 21.96                | 23.5                | 2        |  |  |
| 10                  | 16QAM      | 25      | 25        | 21.95               | 22.10                  | 22.05                |                     |          |  |  |
| 10                  | 16QAM      | 50      | 0         | 22.03               | 22.06                  | 22.04                |                     |          |  |  |
| 10                  | 64QAM      | 1       | 0         | 21.88               | 21.95                  | 21.88                |                     |          |  |  |
| 10                  | 64QAM      | 1       | 25        | 21.87               | 21.99                  | 21.80                | 23.5                | 2        |  |  |
| 10                  | 64QAM      | 1       | 49        | 21.75               | 21.97                  | 21.80                |                     |          |  |  |
| 10                  | 64QAM      | 25      | 0         | 21.26               | 21.35                  | 21.07                |                     |          |  |  |
| 10                  | 64QAM      | 25      | 12        | 20.95               | 21.05                  | 20.92                | 22.5                | 3        |  |  |
| 10                  | 64QAM      | 25      | 25        | 20.95               | 21.07                  | 20.98                |                     |          |  |  |
| 10                  | 64QAM      | 50      | 0         | 20.92               | 20.97                  | 20.83                |                     |          |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 5                   | QPSK       | 1       | 0         | 24.03               | 24.12                  | 23.92                |                     |          |  |  |
| 5                   | QPSK       | 1       | 12        | 23.82               | 24.13                  | 23.83                | 25.5                | 0        |  |  |
| 5                   | QPSK       | 1       | 24        | 23.82               | 24.20                  | 23.85                |                     |          |  |  |
| 5                   | QPSK       | 12      | 0         | 23.13               | 23.09                  | 23.13                |                     |          |  |  |
| 5                   | QPSK       | 12      | 7         | 22.85               | 22.93                  | 22.99                | 24.5                | 1        |  |  |
| 5                   | QPSK       | 12      | 13        | 22.88               | 23.03                  | 22.81                |                     |          |  |  |
| 5                   | QPSK       | 25      | 0         | 23.00               | 23.16                  | 23.00                |                     |          |  |  |
| 5                   | 16QAM      | 1       | 0         | 22.28               | 22.28                  | 22.28                | 24.5                | 1        |  |  |
| 5                   | 16QAM      | 1       | 12        | 22.93               | 22.76                  | 22.82                |                     |          |  |  |
| 5                   | 16QAM      | 1       | 24        | 22.85               | 22.69                  | 22.77                | 24.5                | 1        |  |  |
| 5                   | 16QAM      | 12      | 0         | 22.03               | 22.25                  | 22.03                |                     |          |  |  |
| 5                   | 16QAM      | 12      | 7         | 21.95               | 22.09                  | 22.06                | 23.5                | 2        |  |  |
| 5                   | 16QAM      | 12      | 13        | 21.90               | 22.06                  | 22.04                |                     |          |  |  |
| 5                   | 16QAM      | 25      | 0         | 22.06               | 22.16                  | 21.94                |                     |          |  |  |
| 5                   | 16QAM      | 25      | 0         | 22.00               | 22.10                  | 21.90                | 23.5                | 2        |  |  |
| 5                   | 64QAM      | 1       | 12        | 21.76               | 21.98                  | 21.80                |                     |          |  |  |
| 5                   | 64QAM      | 1       | 24        | 21.77               | 21.85                  | 21.91                | 23.5                | 2        |  |  |
| 5                   | 64QAM      | 12      | 0         | 20.97               | 21.27                  | 21.12                |                     |          |  |  |
| 5                   | 64QAM      | 12      | 7         | 20.99               | 21.15                  | 21.06                | 22.5                | 3        |  |  |
| 5                   | 64QAM      | 12      | 13        | 21.04               | 21.04                  | 20.99                |                     |          |  |  |
| 5                   | 64QAM      | 25      | 0         | 20.92               | 20.90                  | 20.99                |                     |          |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 3                   | QPSK       | 1       | 0         | 24.02               | 24.12                  | 23.90                |                     |          |  |  |
| 3                   | QPSK       | 1       | 8         | 23.83               | 24.11                  | 23.86                | 25.5                | 0        |  |  |
| 3                   | QPSK       | 1       | 14        | 23.82               | 24.17                  | 23.87                |                     |          |  |  |
| 3                   | QPSK       | 8       | 0         | 22.98               | 23.12                  | 23.06                |                     |          |  |  |
| 3                   | QPSK       | 8       | 4         | 22.93               | 23.02                  | 22.99                | 24.5                | 1        |  |  |
| 3                   | QPSK       | 8       | 7         | 22.83               | 22.96                  | 22.88                |                     |          |  |  |
| 3                   | QPSK       | 15      | 0         | 23.10               | 23.11                  | 23.05                |                     |          |  |  |
| 3                   | 16QAM      | 1       | 0         | 22.84               | 22.84                  | 22.83                | 24.5                | 1        |  |  |
| 3                   | 16QAM      | 1       | 8         | 22.86               | 22.84                  | 22.84                |                     |          |  |  |
| 3                   | 16QAM      | 1       | 14        | 22.69               | 22.75                  | 22.65                | 24.5                | 1        |  |  |
| 3                   | 16QAM      | 8       | 0         | 22.08               | 22.16                  | 22.14                |                     |          |  |  |
| 3                   | 16QAM      | 8       | 4         | 21.85               | 22.12                  | 22.00                | 23.5                | 2        |  |  |
| 3                   | 16QAM      | 8       | 7         | 21.95               | 22.18                  | 22.03                |                     |          |  |  |
| 3                   | 16QAM      | 15      | 0         | 21.99               | 22.11                  | 21.92                |                     |          |  |  |
| 3                   | 64QAM      | 1       | 0         | 21.98               | 21.99                  | 21.84                |                     |          |  |  |
| 3                   | 64QAM      | 1       | 8         | 21.82               | 21.99                  | 21.83                | 23.5                | 2        |  |  |
| 3                   | 64QAM      | 1       | 14        | 21.91               | 21.93                  | 21.94                |                     |          |  |  |
| 3                   | 64QAM      | 8       | 0         | 21.12               | 21.20                  | 21.02                |                     |          |  |  |
| 3                   | 64QAM      | 8       | 4         | 20.93               | 21.16                  | 21.01                | 22.5                | 3        |  |  |
| 3                   | 64QAM      | 8       | 7         | 20.94               | 21.02                  | 21.06                |                     |          |  |  |
| 3                   | 64QAM      | 15      | 0         | 20.97               | 20.90                  | 20.91                |                     |          |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 1.4                 | QPSK       | 1       | 0         | 23.93               | 24.07                  | 23.89                |                     |          |  |  |
| 1.4                 | QPSK       | 1       | 3         | 23.86               | 24.13                  | 23.71                | 25.5                | 0        |  |  |
| 1.4                 | QPSK       | 1       | 5         | 23.94               | 24.02                  | 23.90                |                     |          |  |  |
| 1.4                 | QPSK       | 3       | 0         | 24.03               | 24.05                  | 23.83                |                     |          |  |  |
| 1.4                 | QPSK       | 3       | 1         | 24.01               | 23.97                  | 23.79                | 24.5                | 1        |  |  |
| 1.4                 | QPSK       | 3       | 3         | 23.86               | 24.07                  | 23.91                |                     |          |  |  |
| 1.4                 | QPSK       | 6       | 0         | 23.08               | 23.14                  | 23.09                |                     |          |  |  |
| 1.4                 | 16QAM      | 1       | 0         | 23.01               | 23.02                  | 23.00                | 24.5                | 1        |  |  |
| 1.4                 | 16QAM      | 1       | 3         | 22.98               | 23.03                  | 22.94                |                     |          |  |  |
| 1.4                 | 16QAM      | 1       | 5         | 23.00               | 23.11                  | 23.08                | 24.5                | 1        |  |  |
| 1.4                 | 16QAM      | 3       | 0         | 22.81               | 22.84                  | 22.88                |                     |          |  |  |
| 1.4                 | 16QAM      | 3       | 1         | 22.74               | 22.71                  | 22.71                | 23.5                | 2        |  |  |
| 1.4                 | 16QAM      | 3       | 3         | 22.81               | 22.80                  | 22.82                |                     |          |  |  |
| 1.4                 | 16QAM      | 6       | 0         | 22.09               | 22.20                  | 22.05                |                     |          |  |  |
| 1.4                 | 64QAM      | 1       | 0         | 21.89               | 22.20                  | 22.03                | 23.5                | 2        |  |  |
| 1.4                 | 64QAM      | 1       | 3         | 21.97               | 22.19                  | 22.01                |                     |          |  |  |
| 1.4                 | 64QAM      | 1       | 5         | 22.06               | 22.09                  | 21.91                | 23.5                | 2        |  |  |
| 1.4                 | 64QAM      | 3       | 0         | 22.01               | 21.96                  | 21.87                |                     |          |  |  |
| 1.4                 | 64QAM      | 3       | 1         | 21.88               | 22.08                  | 22.05                |                     |          |  |  |
| 1.4                 | 64QAM      | 3       | 3         | 22.02               | 22.04                  | 22.08                | 22.5                | 3        |  |  |
| 1.4                 | 64QAM      | 6       |           |                     |                        |                      |                     |          |  |  |



| Band 13 Ant1 Default |             |         |           |                       |                          |                        |                     |          |  |  |
|----------------------|-------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]             | Modulat ion | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel              |             |         |           | 23259                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |             |         |           | 782                   |                          |                        |                     |          |  |  |
| 10                   | QPSK        | 1       | 0         | 24.34                 | 24.19                    | 24.13                  |                     |          |  |  |
| 10                   | QPSK        | 1       | 25        | 24.31                 |                          |                        | 25.5                | 0        |  |  |
| 10                   | QPSK        | 1       | 49        | 24.23                 |                          |                        |                     |          |  |  |
| 10                   | QPSK        | 25      | 0         | 23.31                 |                          |                        |                     |          |  |  |
| 10                   | QPSK        | 25      | 12        | 23.16                 |                          |                        | 24.5                | 1        |  |  |
| 10                   | QPSK        | 25      | 25        | 23.27                 |                          |                        |                     |          |  |  |
| 10                   | QPSK        | 50      | 0         | 23.32                 |                          |                        |                     |          |  |  |
| 10                   | 16QAM       | 1       | 0         | 23.31                 |                          |                        |                     |          |  |  |
| 10                   | 16QAM       | 1       | 25        | 23.18                 |                          |                        | 24.5                | 1        |  |  |
| 10                   | 16QAM       | 1       | 49        | 23.28                 |                          |                        |                     |          |  |  |
| 10                   | 16QAM       | 25      | 0         | 22.31                 |                          |                        |                     |          |  |  |
| 10                   | 16QAM       | 25      | 12        | 22.17                 |                          |                        | 23.5                | 2        |  |  |
| 10                   | 16QAM       | 25      | 25        | 22.26                 |                          |                        |                     |          |  |  |
| 10                   | 16QAM       | 50      | 0         | 22.36                 |                          |                        |                     |          |  |  |
| 10                   | 64QAM       | 1       | 0         | 22.23                 |                          |                        |                     |          |  |  |
| 10                   | 64QAM       | 1       | 25        | 22.10                 |                          |                        | 23.5                | 2        |  |  |
| 10                   | 64QAM       | 1       | 49        | 22.20                 |                          |                        |                     |          |  |  |
| 10                   | 64QAM       | 25      | 0         | 21.37                 |                          |                        |                     |          |  |  |
| 10                   | 64QAM       | 25      | 12        | 21.31                 |                          |                        | 22.5                | 3        |  |  |
| 10                   | 64QAM       | 25      | 25        | 21.26                 |                          |                        |                     |          |  |  |
| 10                   | 64QAM       | 50      | 0         | 21.29                 |                          |                        |                     |          |  |  |
| Channel              |             |         |           | 23205                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |             |         |           | 779.5                 |                          |                        |                     |          |  |  |
| 5                    | QPSK        | 1       | 0         | 24.15                 | 24.19                    | 24.13                  |                     |          |  |  |
| 5                    | QPSK        | 1       | 12        | 24.20                 | 24.14                    | 24.13                  |                     |          |  |  |
| 5                    | QPSK        | 1       | 24        | 24.08                 | 24.19                    | 24.07                  |                     |          |  |  |
| 5                    | QPSK        | 12      | 0         | 23.24                 | 23.13                    | 23.27                  |                     |          |  |  |
| 5                    | QPSK        | 12      | 7         | 22.97                 | 23.10                    | 23.07                  |                     |          |  |  |
| 5                    | QPSK        | 12      | 13        | 23.21                 | 23.18                    | 23.24                  | 24.5                | 1        |  |  |
| 5                    | QPSK        | 25      | 0         | 23.19                 | 23.10                    | 23.28                  |                     |          |  |  |
| 5                    | 16QAM       | 1       | 0         | 23.12                 | 23.12                    | 23.27                  |                     |          |  |  |
| 5                    | 16QAM       | 1       | 12        | 22.98                 | 23.15                    | 23.15                  | 24.5                | 1        |  |  |
| 5                    | 16QAM       | 1       | 24        | 23.23                 | 23.21                    | 23.12                  |                     |          |  |  |
| 5                    | 16QAM       | 12      | 0         | 22.14                 | 22.10                    | 22.20                  |                     |          |  |  |
| 5                    | 16QAM       | 12      | 7         | 22.14                 | 22.11                    | 21.99                  | 23.5                | 2        |  |  |
| 5                    | 16QAM       | 12      | 13        | 22.16                 | 22.22                    | 22.12                  |                     |          |  |  |
| 5                    | 16QAM       | 25      | 0         | 22.31                 | 22.30                    | 22.31                  |                     |          |  |  |
| 5                    | 64QAM       | 1       | 0         | 22.02                 | 22.06                    | 22.20                  |                     |          |  |  |
| 5                    | 64QAM       | 1       | 12        | 21.96                 | 22.03                    | 21.96                  | 23.5                | 2        |  |  |
| 5                    | 64QAM       | 1       | 24        | 22.15                 | 22.04                    | 22.11                  |                     |          |  |  |
| 5                    | 64QAM       | 12      | 0         | 21.24                 | 21.29                    | 21.32                  |                     |          |  |  |
| 5                    | 64QAM       | 12      | 7         | 21.22                 | 21.09                    | 21.21                  | 22.5                | 3        |  |  |
| 5                    | 64QAM       | 12      | 13        | 21.09                 | 21.14                    | 21.12                  |                     |          |  |  |
| 5                    | 64QAM       | 25      | 0         | 21.23                 | 21.23                    | 21.19                  |                     |          |  |  |

| Band 26 Ant1 Default |             |         |           |                       |                          |                        |                     |          |  |
|----------------------|-------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]             | Modulat ion | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel              |             |         |           | 26765                 |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 821.5                 |                          |                        |                     |          |  |
| 15                   | QPSK        | 1       | 0         | 24.02                 | 24.41                    | 24.19                  |                     |          |  |
| 15                   | QPSK        | 1       | 37        | 23.92                 | 24.29                    | 24.14                  | 25.5                | 0        |  |
| 15                   | QPSK        | 1       | 74        | 23.97                 | 24.28                    | 24.08                  |                     |          |  |
| 15                   | QPSK        | 36      | 0         | 22.98                 | 23.11                    | 23.06                  |                     |          |  |
| 15                   | QPSK        | 36      | 20        | 22.97                 | 23.00                    | 23.00                  | 24.5                | 1        |  |
| 15                   | QPSK        | 36      | 39        | 22.86                 | 22.97                    | 23.01                  |                     |          |  |
| 15                   | QPSK        | 75      | 0         | 23.01                 | 23.15                    | 23.14                  |                     |          |  |
| 15                   | 16QAM       | 1       | 0         | 23.02                 | 23.17                    | 23.11                  |                     |          |  |
| 15                   | 16QAM       | 1       | 37        | 22.87                 | 23.03                    | 23.06                  | 24.5                | 1        |  |
| 15                   | 16QAM       | 1       | 74        | 22.93                 | 23.08                    | 23.04                  |                     |          |  |
| 15                   | 16QAM       | 36      | 0         | 22.02                 | 22.20                    | 22.00                  |                     |          |  |
| 15                   | 16QAM       | 36      | 20        | 21.91                 | 22.12                    | 21.95                  | 23.5                | 2        |  |
| 15                   | 16QAM       | 36      | 39        | 21.94                 | 22.16                    | 21.96                  |                     |          |  |
| 15                   | 16QAM       | 75      | 0         | 21.87                 | 22.17                    | 22.02                  |                     |          |  |
| 15                   | 64QAM       | 1       | 0         | 22.02                 | 22.12                    | 22.13                  |                     |          |  |
| 15                   | 64QAM       | 1       | 37        | 21.92                 | 22.00                    | 22.02                  | 23.5                | 2        |  |
| 15                   | 64QAM       | 1       | 74        | 21.99                 | 22.04                    | 22.05                  |                     |          |  |
| 15                   | 64QAM       | 36      | 0         | 20.83                 | 21.04                    | 20.83                  |                     |          |  |
| 15                   | 64QAM       | 36      | 20        | 20.78                 | 20.94                    | 20.85                  | 22.5                | 3        |  |
| 15                   | 64QAM       | 36      | 39        | 20.69                 | 21.04                    | 20.90                  |                     |          |  |
| 15                   | 64QAM       | 75      | 0         | 20.68                 | 21.08                    | 21.08                  |                     |          |  |
| Channel              |             |         |           | 26740                 |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 819                   |                          |                        |                     |          |  |
| 10                   | QPSK        | 1       | 0         | 23.86                 | 24.38                    | 23.98                  |                     |          |  |
| 10                   | QPSK        | 1       | 25        | 23.80                 | 24.24                    | 23.92                  | 25.5                | 0        |  |
| 10                   | QPSK        | 1       | 49        | 23.89                 | 24.10                    | 23.92                  |                     |          |  |
| 10                   | QPSK        | 25      | 0         | 22.89                 | 22.98                    | 23.00                  |                     |          |  |
| 10                   | QPSK        | 25      | 12        | 22.67                 | 22.85                    | 22.82                  | 24.5                | 1        |  |
| 10                   | QPSK        | 25      | 25        | 22.81                 | 22.85                    | 22.79                  |                     |          |  |
| 10                   | QPSK        | 50      | 0         | 22.92                 | 23.11                    | 23.11                  |                     |          |  |
| 10                   | 16QAM       | 1       | 0         | 22.99                 | 22.85                    | 22.92                  |                     |          |  |
| 10                   | 16QAM       | 1       | 25        | 22.72                 | 22.82                    | 22.87                  | 24.5                | 1        |  |
| 10                   | 16QAM       | 1       | 49        | 22.89                 | 22.93                    | 22.94                  |                     |          |  |
| 10                   | 16QAM       | 25      | 0         | 21.83                 | 22.15                    | 21.96                  |                     |          |  |
| 10                   | 16QAM       | 25      | 12        | 21.70                 | 22.10                    | 21.91                  | 23.5                | 2        |  |
| 10                   | 16QAM       | 25      | 25        | 21.78                 | 22.11                    | 21.85                  |                     |          |  |
| 10                   | 16QAM       | 50      | 0         | 21.80                 | 22.09                    | 21.98                  |                     |          |  |
| 10                   | 64QAM       | 1       | 0         | 21.91                 | 22.05                    | 21.94                  |                     |          |  |
| 10                   | 64QAM       | 1       | 25        | 21.89                 | 21.85                    | 21.90                  | 23.5                | 2        |  |
| 10                   | 64QAM       | 1       | 49        | 21.78                 | 22.02                    | 21.93                  |                     |          |  |
| 10                   | 64QAM       | 25      | 0         | 20.75                 | 21.04                    | 20.82                  |                     |          |  |
| 10                   | 64QAM       | 25      | 12        | 20.68                 | 20.92                    | 20.80                  | 22.5                | 3        |  |
| 10                   | 64QAM       | 25      | 25        | 20.58                 | 20.86                    | 20.73                  |                     |          |  |
| 10                   | 64QAM       | 50      | 0         | 20.60                 | 20.90                    | 20.65                  |                     |          |  |
| Channel              |             |         |           | 26715                 |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 816.5                 |                          |                        |                     |          |  |
| 5                    | QPSK        | 1       | 0         | 23.82                 | 24.26                    | 24.13                  |                     |          |  |
| 5                    | QPSK        | 1       | 12        | 23.81                 | 24.26                    | 24.08                  | 25.5                | 0        |  |
| 5                    | QPSK        | 1       | 24        | 23.83                 | 24.15                    | 23.93                  |                     |          |  |
| 5                    | QPSK        | 12      | 0         | 22.95                 | 23.03                    | 22.91                  |                     |          |  |
| 5                    | QPSK        | 12      | 7         | 22.80                 | 22.88                    | 22.90                  | 24.5                | 1        |  |
| 5                    | QPSK        | 12      | 13        | 22.78                 | 22.83                    | 22.86                  |                     |          |  |
| 5                    | QPSK        | 25      | 0         | 22.88                 | 23.04                    | 22.99                  |                     |          |  |
| 5                    | 16QAM       | 1       | 0         | 22.85                 | 23.01                    | 22.91                  |                     |          |  |
| 5                    | 16QAM       | 1       | 12        | 22.66                 | 22.93                    | 23.00                  | 24.5                | 1        |  |
| 5                    | 16QAM       | 1       | 24        | 22.82                 | 22.87                    | 23.00                  |                     |          |  |
| 5                    | 16QAM       | 12      | 0         | 21.96                 | 22.26                    | 21.80                  |                     |          |  |
| 5                    | 16QAM       | 12      | 7         | 21.74                 | 21.93                    | 21.84                  | 23.5                | 2        |  |
| 5                    | 16QAM       | 12      | 13        | 21.90                 | 21.96                    | 21.83                  |                     |          |  |
| 5                    | 16QAM       | 25      | 0         | 21.82                 | 22.03                    | 21.88                  |                     |          |  |
| 5                    | 64QAM       | 1       | 0         | 21.85                 | 21.98                    | 21.91                  |                     |          |  |
| 5                    | 64QAM       | 1       | 12        | 21.86                 | 21.95                    | 21.98                  | 23.5                | 2        |  |
| 5                    | 64QAM       | 1       | 24        | 21.92                 | 21.84                    | 22.02                  |                     |          |  |
| 5                    | 64QAM       | 12      | 0         | 20.61                 | 20.86                    | 20.85                  |                     |          |  |
| 5                    | 64QAM       | 12      | 7         | 20.69                 | 20.75                    | 20.75                  | 22.5                | 3        |  |
| 5                    | 64QAM       | 12      | 13        | 20.65                 | 20.88                    | 20.84                  |                     |          |  |
| 5                    | 64QAM       | 25      | 0         | 20.73                 | 20.99                    | 20.98                  |                     |          |  |
| Channel              |             |         |           | 26705                 |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 815.5                 |                          |                        |                     |          |  |
| 3                    | QPSK        | 1       | 0         | 23.91                 | 24.32                    | 24.00                  |                     |          |  |
| 3                    | QPSK        | 1       | 8         | 23.83                 | 24.25                    | 24.04                  | 25.5                | 0        |  |
| 3                    | QPSK        | 1       | 14        | 23.88                 | 24.17                    | 23.91                  |                     |          |  |
| 3                    | QPSK        | 8       | 0         | 22.77                 | 22.99                    | 22.85                  |                     |          |  |
| 3                    | QPSK        | 8       | 4         | 22.78                 | 22.87                    | 22.80                  | 24.5                | 1        |  |
| 3                    | QPSK        | 8       | 7         | 22.81                 | 22.88                    | 22.81                  |                     |          |  |
| 3                    | QPSK        | 15      | 0         | 22.98                 | 23.01                    | 23.06                  |                     |          |  |
| 3                    | 16QAM       | 1       | 0         | 23.00                 | 23.96                    | 23.05                  |                     |          |  |
| 3                    | 16QAM       | 1       | 8         | 22.81                 | 22.89                    | 22.91                  | 24.5                | 1        |  |
| 3                    | 16QAM       | 1       | 14        | 22.78                 | 23.05                    | 22.92                  |                     |          |  |
| 3                    | 16QAM       | 8       | 0         | 21.90                 | 22.02                    | 21.96                  |                     |          |  |
| 3                    | 16QAM       | 8       | 4         | 21.79                 | 21.91                    | 21.83                  | 23.5                | 2        |  |
| 3                    | 16QAM       | 8       | 7         | 21.76                 | 22.11                    | 21.83                  |                     |          |  |
| 3                    | 16QAM       | 15      | 0         | 21.70                 | 21.96                    | 21.87                  |                     |          |  |
| 3                    | 64QAM       | 1       | 0         | 21.87                 | 22.06                    | 22.11                  |                     |          |  |
| 3                    | 64QAM       | 1       | 8         | 21.85                 | 21.87                    | 21.82                  | 23.5                | 2        |  |
| 3                    | 64QAM       | 1       | 14        | 21.80                 | 22.02                    | 21.85                  |                     |          |  |
| 3                    | 64QAM       | 8       | 0         | 20.81                 | 21.03                    | 20.90                  |                     |          |  |
| 3                    | 64QAM       | 8       | 4         | 20.67                 | 20.82                    | 20.65                  | 22.5                | 3        |  |
| 3                    | 64QAM       | 8       | 7         | 20.47                 | 20.96                    | 20.75                  |                     |          |  |
| 3                    | 64QAM       | 15      | 0         | 20.78                 | 21.02                    | 20.68                  |                     |          |  |
| Channel              |             |         |           | 26697                 |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 814.7                 |                          |                        |                     |          |  |
| 1.4                  | QPSK        | 1       | 0         | 23.93                 | 24.26                    | 23.99                  |                     |          |  |
| 1.4                  | QPSK        | 1       | 3         | 23.74                 | 24.09                    | 23.94                  | 25.5                | 0        |  |
| 1.4                  | QPSK        | 1       | 5         | 23.92                 | 24.10                    | 24.02                  |                     |          |  |

| 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 [dB] | MPR [dB] |  |  |  |
| Channel              |            |         |           | 37850                 | 38000                    | 38150                  |              |          |  |  |  |
| Frequency (MHz)      |            |         |           | 2580                  | 2595                     | 2610                   |              |          |  |  |  |
| 20                   | QPSK       | 1       | 0         | 24.01                 | 24.12                    | 24.08                  |              |          |  |  |  |
| 20                   | QPSK       | 1       | 49        | 23.91                 | 24.02                    | 24.01                  | 25.5         | 0        |  |  |  |
| 20                   | QPSK       | 1       | 99        | 23.88                 | 24.06                    | 23.98                  |              |          |  |  |  |
| 20                   | QPSK       | 50      | 0         | 23.01                 | 23.11                    | 23.06                  |              |          |  |  |  |
| 20                   | QPSK       | 50      | 24        | 22.98                 | 22.96                    | 22.98                  | 24.5         | 1        |  |  |  |
| 20                   | QPSK       | 50      | 50        | 22.86                 | 23.07                    | 22.93                  |              |          |  |  |  |
| 20                   | QPSK       | 100     | 0         | 23.04                 | 23.09                    | 22.97                  |              |          |  |  |  |
| 20                   | 16QAM      | 1       | 0         | 22.86                 | 23.07                    | 23.01                  |              |          |  |  |  |
| 20                   | 16QAM      | 1       | 49        | 22.92                 | 22.83                    | 22.85                  | 24.5         | 1        |  |  |  |
| 20                   | 16QAM      | 1       | 99        | 22.77                 | 22.93                    | 22.84                  |              |          |  |  |  |
| 20                   | 16QAM      | 50      | 0         | 22.07                 | 22.12                    | 22.06                  |              |          |  |  |  |
| 20                   | 16QAM      | 50      | 24        | 22.04                 | 21.99                    | 22.01                  | 23.5         | 2        |  |  |  |
| 20                   | 16QAM      | 50      | 50        | 22.00                 | 22.06                    | 21.98                  |              |          |  |  |  |
| 20                   | 64QAM      | 1       | 0         | 22.11                 | 22.22                    | 22.18                  |              |          |  |  |  |
| 20                   | 64QAM      | 1       | 49        | 22.00                 | 22.12                    | 22.09                  | 23.5         | 2        |  |  |  |
| 20                   | 64QAM      | 1       | 99        | 21.87                 | 22.02                    | 22.03                  |              |          |  |  |  |
| 20                   | 64QAM      | 50      | 0         | 21.10                 | 21.20                    | 21.15                  |              |          |  |  |  |
| 20                   | 64QAM      | 50      | 24        | 21.01                 | 21.08                    | 21.08                  | 22.5         | 3        |  |  |  |
| 20                   | 64QAM      | 50      | 50        | 20.99                 | 21.12                    | 21.08                  |              |          |  |  |  |
| 20                   | 64QAM      | 100     | 0         | 21.07                 | 21.19                    | 21.10                  |              |          |  |  |  |
| Channel              |            |         |           | 37825                 | 38000                    | 38175                  |              |          |  |  |  |
| Frequency (MHz)      |            |         |           | 2577.5                | 2595                     | 2612.5                 |              |          |  |  |  |
| 15                   | QPSK       | 1       | 0         | 23.90                 | 23.94                    | 23.90                  |              |          |  |  |  |
| 15                   | QPSK       | 1       | 37        | 23.88                 | 23.90                    | 23.84                  | 26           | 0        |  |  |  |
| 15                   | QPSK       | 1       | 74        | 23.85                 | 23.98                    | 23.82                  |              |          |  |  |  |
| 15                   | QPSK       | 36      | 0         | 22.87                 | 22.93                    | 22.89                  |              |          |  |  |  |
| 15                   | QPSK       | 36      | 20        | 22.92                 | 22.81                    | 22.81                  | 24.5         | 1        |  |  |  |
| 15                   | QPSK       | 36      | 39        | 22.86                 | 22.88                    | 22.87                  |              |          |  |  |  |
| 15                   | QPSK       | 75      | 0         | 22.98                 | 22.91                    | 22.98                  |              |          |  |  |  |
| 15                   | 16QAM      | 1       | 0         | 22.83                 | 23.02                    | 22.92                  |              |          |  |  |  |
| 15                   | 16QAM      | 1       | 37        | 22.77                 | 22.73                    | 22.76                  | 24.5         | 1        |  |  |  |
| 15                   | 16QAM      | 1       | 74        | 22.66                 | 22.90                    | 22.73                  |              |          |  |  |  |
| 15                   | 16QAM      | 36      | 0         | 21.94                 | 21.90                    | 21.87                  |              |          |  |  |  |
| 15                   | 16QAM      | 36      | 20        | 21.97                 | 21.78                    | 21.86                  | 23.5         | 2        |  |  |  |
| 15                   | 16QAM      | 36      | 39        | 21.81                 | 22.02                    | 21.93                  |              |          |  |  |  |
| 15                   | 16QAM      | 75      | 0         | 21.83                 | 22.03                    | 22.05                  |              |          |  |  |  |
| 15                   | 64QAM      | 1       | 0         | 22.07                 | 22.08                    | 22.14                  |              |          |  |  |  |
| 15                   | 64QAM      | 1       | 37        | 21.88                 | 21.91                    | 22.01                  | 23.5         | 2        |  |  |  |
| 15                   | 64QAM      | 1       | 74        | 21.84                 | 21.97                    | 21.84                  |              |          |  |  |  |
| 15                   | 64QAM      | 36      | 0         | 21.01                 | 21.00                    | 21.02                  |              |          |  |  |  |
| 15                   | 64QAM      | 36      | 39        | 20.80                 | 20.87                    | 20.90                  | 22.5         | 3        |  |  |  |
| 15                   | 64QAM      | 36      | 39        | 20.90                 | 20.91                    | 21.04                  |              |          |  |  |  |
| 15                   | 64QAM      | 75      | 0         | 20.86                 | 21.16                    | 21.06                  |              |          |  |  |  |
| Channel              |            |         |           | 37800                 | 38000                    | 38200                  |              |          |  |  |  |
| Frequency (MHz)      |            |         |           | 2575                  | 2595                     | 2615                   |              |          |  |  |  |
| 10                   | QPSK       | 1       | 0         | 23.94                 | 24.05                    | 23.91                  |              |          |  |  |  |
| 10                   | QPSK       | 1       | 25        | 23.86                 | 23.81                    | 23.91                  | 25.5         | 0        |  |  |  |
| 10                   | QPSK       | 1       | 49        | 23.70                 | 23.66                    | 23.95                  |              |          |  |  |  |
| 10                   | QPSK       | 25      | 0         | 22.82                 | 22.96                    | 22.96                  |              |          |  |  |  |
| 10                   | QPSK       | 25      | 12        | 22.77                 | 22.86                    | 22.92                  | 24.5         | 1        |  |  |  |
| 10                   | QPSK       | 25      | 25        | 22.81                 | 23.00                    | 22.79                  |              |          |  |  |  |
| 10                   | QPSK       | 50      | 0         | 22.94                 | 22.94                    | 22.80                  |              |          |  |  |  |
| 10                   | 16QAM      | 1       | 0         | 22.80                 | 23.01                    | 22.85                  |              |          |  |  |  |
| 10                   | 16QAM      | 1       | 25        | 22.83                 | 22.73                    | 22.81                  | 24.5         | 1        |  |  |  |
| 10                   | 16QAM      | 1       | 49        | 22.84                 | 22.86                    | 22.68                  |              |          |  |  |  |
| 10                   | 16QAM      | 25      | 0         | 21.90                 | 22.06                    | 22.03                  |              |          |  |  |  |
| 10                   | 16QAM      | 25      | 12        | 22.00                 | 21.91                    | 21.81                  | 23.5         | 2        |  |  |  |
| 10                   | 16QAM      | 25      | 25        | 21.85                 | 21.85                    | 21.88                  |              |          |  |  |  |
| 10                   | 16QAM      | 50      | 0         | 21.85                 | 21.94                    | 21.97                  |              |          |  |  |  |
| 10                   | 64QAM      | 1       | 0         | 22.07                 | 22.11                    | 22.08                  |              |          |  |  |  |
| 10                   | 64QAM      | 1       | 25        | 21.95                 | 22.08                    | 22.01                  | 23.5         | 2        |  |  |  |
| 10                   | 64QAM      | 1       | 49        | 21.68                 | 21.86                    | 21.83                  |              |          |  |  |  |
| 10                   | 64QAM      | 25      | 0         | 21.02                 | 21.11                    | 21.08                  |              |          |  |  |  |
| 10                   | 64QAM      | 25      | 12        | 20.95                 | 20.88                    | 21.05                  | 22.5         | 3        |  |  |  |
| 10                   | 64QAM      | 25      | 25        | 20.87                 | 21.09                    | 21.06                  |              |          |  |  |  |
| 10                   | 64QAM      | 50      | 0         | 21.01                 | 21.11                    | 20.90                  |              |          |  |  |  |
| Channel              |            |         |           | 37775                 | 38000                    | 38225                  |              |          |  |  |  |
| Frequency (MHz)      |            |         |           | 2572.5                | 2595                     | 2617.5                 |              |          |  |  |  |
| 5                    | QPSK       | 1       | 0         | 23.98                 | 24.07                    | 24.04                  |              |          |  |  |  |
| 5                    | QPSK       | 1       | 12        | 23.86                 | 23.94                    | 23.95                  | 25.5         | 0        |  |  |  |
| 5                    | QPSK       | 1       | 24        | 23.67                 | 23.87                    | 23.85                  |              |          |  |  |  |
| 5                    | QPSK       | 12      | 0         | 22.97                 | 23.00                    | 22.95                  |              |          |  |  |  |
| 5                    | QPSK       | 12      | 7         | 22.88                 | 22.85                    | 22.87                  | 24.5         | 1        |  |  |  |
| 5                    | QPSK       | 12      | 13        | 22.73                 | 22.89                    | 22.87                  |              |          |  |  |  |
| 5                    | QPSK       | 25      | 0         | 22.89                 | 22.94                    | 22.83                  |              |          |  |  |  |
| 5                    | 16QAM      | 1       | 0         | 22.79                 | 22.99                    | 22.90                  |              |          |  |  |  |
| 5                    | 16QAM      | 1       | 12        | 22.74                 | 22.81                    | 22.69                  | 24.5         | 1        |  |  |  |
| 5                    | 16QAM      | 1       | 24        | 22.84                 | 22.74                    | 22.72                  |              |          |  |  |  |
| 5                    | 16QAM      | 12      | 0         | 22.01                 | 21.91                    | 21.94                  |              |          |  |  |  |
| 5                    | 16QAM      | 12      | 7         | 21.88                 | 21.81                    | 21.97                  | 23.5         | 2        |  |  |  |
| 5                    | 16QAM      | 12      | 13        | 21.81                 | 22.03                    | 21.83                  |              |          |  |  |  |
| 5                    | 16QAM      | 25      | 0         | 21.85                 | 21.98                    | 21.93                  |              |          |  |  |  |
| 5                    | 64QAM      | 1       | 0         | 22.07                 | 22.01                    | 22.03                  | 23.5         | 2        |  |  |  |
| 5                    | 64QAM      | 1       | 12        | 21.81                 | 21.97                    | 21.89                  |              |          |  |  |  |
| 5                    | 64QAM      | 1       | 24        | 21.72                 | 21.89                    | 21.82                  |              |          |  |  |  |
| 5                    | 64QAM      | 12      | 0         | 20.92                 | 21.17                    | 21.11                  |              |          |  |  |  |
| 5                    | 64QAM      | 12      | 7         | 20.87                 | 21.03                    | 21.07                  | 22.5         | 3        |  |  |  |
| 5                    | 64QAM      | 12      | 13        | 20.79                 | 20.94                    | 21.05                  |              |          |  |  |  |
| 5                    | 64QAM      | 25      | 0         | 20.88                 | 20.99                    | 20.99                  |              |          |  |  |  |

| Band 41 Ant1 Default |            |         |           |                       |                          |                        |              |          |      |   |  |
|----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|--------------|----------|------|---|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up [dB] | MPR [dB] |      |   |  |
| Channel              |            |         |           | 39750                 | 40185                    | 40620                  |              |          |      |   |  |
| Frequency (MHz)      |            |         |           | 2506                  | 2548.5                   | 2593                   |              |          |      |   |  |
| 20                   | QPSK       | 1       | 0         | 23.91                 | 23.98                    | 24.15                  | 24.09        | 24.06    |      |   |  |
| 20                   | QPSK       | 1       | 49        | 23.84                 | 23.85                    | 24.12                  | 24.01        | 23.95    | 25.5 | 0 |  |
| 20                   | QPSK       | 1       | 99        | 23.80                 | 23.89                    | 24.01                  | 23.97        | 23.96    |      |   |  |
| 20                   | QPSK       | 50      | 0         | 23.04                 | 23.09                    | 23.14                  | 23.11        | 23.09    |      |   |  |
| 20                   | QPSK       | 50      | 24        | 22.91                 | 23.00                    | 23.05                  | 23.03        | 22.94    | 24.5 | 1 |  |
| 20                   | QPSK       | 50      | 50        | 22.98                 | 22.98                    | 23.01                  | 23.04        | 22.98    |      |   |  |
| 20                   | QPSK       | 100     | 0         | 22.95                 | 23.03                    | 23.07                  | 22.92        | 22.98    |      |   |  |
| 20                   | 16QAM      | 1       | 0         | 23.05                 | 22.99                    | 23.10                  | 22.97        | 22.99    |      |   |  |
| 20                   | 16QAM      | 1       | 49        | 22.93                 | 22.85                    | 23.03                  | 22.85        | 22.87    | 24.5 | 1 |  |
| 20                   | 16QAM      | 1       | 99        | 22.99                 | 22.95                    | 23.04                  | 22.91        | 22.82    |      |   |  |
| 20                   | 16QAM      | 50      | 0         | 21.88                 | 21.94                    | 21.97                  | 21.90        | 21.91    |      |   |  |
| 20                   | 16QAM      | 50      | 24        | 21.74                 | 21.86                    | 21.85                  | 21.75        | 21.85    | 23.5 | 2 |  |
| 20                   | 16QAM      | 50      | 50        | 21.76                 | 21.88                    | 21.88                  | 21.84        | 21.77    |      |   |  |
| 20                   | 64QAM      | 100     | 0         | 22.00                 | 22.03                    | 22.09                  | 22.04        | 21.98    |      |   |  |
| 20                   | 64QAM      | 1       | 49        | 22.08                 | 21.97                    | 22.05                  | 22.01        | 22.04    | 23.5 | 2 |  |
| 20                   | 64QAM      | 1       | 99        | 21.98                 | 21.96                    | 22.06                  | 21.97        | 22.04    |      |   |  |
| 20                   | 64QAM      | 50      | 0         | 21.04                 | 20.99                    | 21.08                  | 20.98        | 21.02    |      |   |  |
| 20                   | 64QAM      | 50      | 24        | 20.98                 | 20.89                    | 20.93                  | 20.95        | 20.89    | 22.5 | 3 |  |
| 20                   | 64QAM      | 50      | 50        | 20.93                 | 20.85                    | 20.99                  | 20.83        | 20.76    |      |   |  |
| 20                   | 64QAM      | 100     | 0         | 20.98                 | 21.01                    | 21.10                  | 20.98        | 20.98    |      |   |  |
| Channel              |            |         |           | 39725                 | 40173                    | 40620                  | 41068        | 41516    |      |   |  |
| Frequency (MHz)      |            |         |           | 2503.5                | 2548.3                   | 2593                   | 2637.8       | 2682.5   |      |   |  |
| 15                   | QPSK       | 1       | 0         | 23.70                 | 23.79                    | 24.06                  | 23.91        | 23.86    |      |   |  |
| 15                   | QPSK       | 1       | 37        | 23.78                 | 23.70                    | 24.07                  | 23.81        | 23.83    | 26   | 0 |  |
| 15                   | QPSK       | 1       | 74        | 23.61                 | 23.68                    | 23.84                  | 23.81        | 23.77    |      |   |  |
| 15                   | QPSK       | 36      | 0         | 22.84                 | 22.92                    | 22.98                  | 23.00        | 22.90    |      |   |  |
| 15                   | QPSK       | 36      | 20        | 22.86                 | 22.92                    | 22.99                  | 22.95        | 22.84    | 24.5 | 1 |  |
| 15                   | QPSK       | 36      | 39        | 22.91                 | 22.88                    | 22.91                  | 22.86        | 22.86    |      |   |  |
| 15                   | QPSK       | 75      | 0         | 22.82                 | 22.82                    | 23.04                  | 22.89        | 22.76    |      |   |  |
| 15                   | 16QAM      | 1       | 0         | 22.86                 | 22.89                    | 22.96                  | 22.89        | 22.76    | 24.5 | 1 |  |
| 15                   | 16QAM      | 1       | 37        | 22.80                 | 22.82                    | 22.91                  | 22.63        | 22.76    |      |   |  |
| 15                   | 16QAM      | 1       | 74        | 22                    |                          |                        |              |          |      |   |  |



| GSM850 Ant4 Default  |                           |       |       |                           |                           |       |       |
|----------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|
| GSM850<br>TX Channel | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       |
|                      | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |
| Frequency (MHz)      | 324.2                     | 324.4 | 324.8 | 324.2                     | 324.4                     | 324.8 |       |
| GSM 1 Tx slot        | 32.56                     | 32.47 | 32.57 | 33.50                     | 23.55                     | 23.47 | 23.57 |
| GPRS 1 Tx slot       | 32.38                     | 32.51 | 32.58 | 33.50                     | 23.38                     | 23.51 | 23.58 |
| GPRS 2 Tx slots      | 30.53                     | 30.42 | 30.54 | 31.00                     | 24.53                     | 24.42 | 24.54 |
| GPRS 3 Tx slots      | 28.95                     | 28.49 | 28.31 | 28.50                     | 24.19                     | 24.23 | 24.05 |
| GPRS 4 Tx slots      | 27.22                     | 27.15 | 27.16 | 28.00                     | 24.22                     | 24.15 | 24.16 |
| EDGE 1 Tx slot       | 26.88                     | 26.93 | 26.91 | 28.00                     | 17.88                     | 17.93 | 17.91 |
| EDGE 2 Tx slots      | 24.33                     | 24.31 | 24.29 | 26.50                     | 18.33                     | 18.31 | 18.29 |
| EDGE 3 Tx slots      | 22.52                     | 22.22 | 22.17 | 24.00                     | 18.06                     | 17.96 | 17.91 |
| EDGE 4 Tx slots      | 20.59                     | 20.68 | 20.57 | 22.00                     | 17.59                     | 17.68 | 17.57 |

| GSM1900 Ant4 Default  |                           |       |        |                           |                           |        |       |
|-----------------------|---------------------------|-------|--------|---------------------------|---------------------------|--------|-------|
| GSM1900<br>TX Channel | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |        |       |
|                       | 512                       | 861   | 810    |                           | 512                       | 861    | 810   |
| Frequency (MHz)       | 1850.2                    | 1880  | 1909.8 | 1850.2                    | 1880                      | 1909.8 |       |
| GSM 1 Tx slot         | 28.87                     | 28.98 | 29.27  | 30.00                     | 19.87                     | 19.98  | 20.27 |
| GPRS 1 Tx slot        | 28.91                     | 29.00 | 29.31  | 30.00                     | 19.91                     | 20.00  | 20.31 |
| GPRS 2 Tx slots       | 26.05                     | 26.45 | 26.43  | 27.50                     | 20.05                     | 20.49  | 20.43 |
| GPRS 3 Tx slots       | 24.17                     | 24.23 | 24.59  | 25.00                     | 19.91                     | 19.97  | 20.33 |
| GPRS 4 Tx slots       | 22.87                     | 22.77 | 23.07  | 23.50                     | 19.67                     | 19.77  | 20.07 |
| EDGE 1 Tx slot        | 25.33                     | 25.36 | 25.73  | 26.00                     | 16.33                     | 16.36  | 16.73 |
| EDGE 2 Tx slots       | 22.27                     | 22.39 | 22.44  | 22.50                     | 16.27                     | 16.39  | 16.44 |
| EDGE 3 Tx slots       | 20.44                     | 20.46 | 20.42  | 20.50                     | 16.18                     | 16.20  | 16.16 |
| EDGE 4 Tx slots       | 19.40                     | 19.33 | 19.46  | 19.50                     | 16.40                     | 16.33  | 16.46 |

| Band<br>TX Channel               | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |       | WCDMA V |       |      |
|----------------------------------|----------|-------|--------|---------------------------|----------|--------|-------|---------|-------|------|
|                                  | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513  | 4132    | 4162  | 4233 |
| Rx Channel                       | 9662     | 9800  | 9938   | 1537                      | 1638     | 1738   | 4357  | 4407    | 4458  |      |
| Frequency (MHz)                  | 1852.4   | 1869  | 1897.6 | 1722.4                    | 1723.8   | 1742.2 | 4354  | 4364    | 4368  |      |
| 3GPP Rel 99 AMR 12.2Kbps         | 23.59    | 23.70 | 23.60  | 25.00                     | 23.56    | 23.75  | 23.65 | 25.00   | 23.53 |      |
| 3GPP Rel 99 RMC 12.2Kbps         | 23.65    | 23.71 | 23.64  | 25.00                     | 23.73    | 23.84  | 23.56 | 25.00   | 23.58 |      |
| 3GPP Rel 6 HSDPA Subtest-1       | 22.53    | 22.72 | 22.86  | 24.00                     | 22.59    | 22.68  | 22.65 | 24.00   | 22.65 |      |
| 3GPP Rel 6 HSDPA Subtest-2       | 22.57    | 22.63 | 22.52  | 24.00                     | 22.57    | 22.69  | 22.56 | 24.00   | 22.65 |      |
| 3GPP Rel 6 HSDPA Subtest-3       | 22.10    | 22.25 | 22.21  | 23.50                     | 22.05    | 22.14  | 22.14 | 23.50   | 22.01 |      |
| 3GPP Rel 6 HSDPA Subtest-4       | 22.10    | 22.21 | 22.09  | 23.50                     | 22.08    | 22.14  | 22.09 | 23.50   | 22.06 |      |
| 3GPP Rel 8 DC-HSDPA Subtest-1    | 22.52    | 22.67 | 22.58  | 24.00                     | 22.58    | 22.59  | 22.56 | 24.00   | 22.53 |      |
| 3GPP Rel 8 DC-HSDPA Subtest-2    | 22.48    | 22.52 | 22.56  | 24.00                     | 22.47    | 22.58  | 22.56 | 24.00   | 22.53 |      |
| 3GPP Rel 8 DC-HSDPA Subtest-3    | 21.98    | 22.20 | 22.11  | 23.50                     | 22.05    | 22.17  | 22.04 | 23.50   | 22.02 |      |
| 3GPP Rel 8 DC-HSDPA Subtest-4    | 21.93    | 22.05 | 21.96  | 23.50                     | 21.97    | 22.06  | 22.02 | 23.50   | 21.95 |      |
| 3GPP Rel 6 HSUPA Subtest-1       | 22.46    | 22.56 | 22.53  | 24.00                     | 22.44    | 22.55  | 22.47 | 24.00   | 22.41 |      |
| 3GPP Rel 6 HSUPA Subtest-2       | 20.58    | 20.73 | 20.64  | 22.00                     | 20.54    | 20.75  | 20.64 | 22.00   | 20.52 |      |
| 3GPP Rel 6 HSUPA Subtest-3       | 21.71    | 21.82 | 21.70  | 23.00                     | 21.67    | 21.74  | 21.62 | 23.00   | 21.65 |      |
| 3GPP Rel 6 HSUPA Subtest-4       | 20.51    | 20.63 | 20.54  | 22.00                     | 20.54    | 20.70  | 20.44 | 22.00   | 20.51 |      |
| 3GPP Rel 6 HSUPA Subtest-5       | 22.53    | 22.61 | 22.52  | 24.00                     | 22.46    | 22.64  | 22.48 | 24.00   | 22.53 |      |
| 3GPP Rel 7 HSPA+ (MCM) Subtest-1 | 20.13    | 20.22 | 20.14  | 21.50                     | 20.14    | 20.25  | 20.12 | 21.50   | 20.13 |      |



| Band 2 Ant4 Default |            |         |           |                     |                        |                      |               |          |  |  |
|---------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------|----------|--|--|
| BW (MHz)            | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Turn-up (dBm) | MPR (dB) |  |  |
| Channel             |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |               |          |  |  |
| 20                  | QPSK       | 1       | 0         | 24.14               | 24.25                  | 24.21                |               |          |  |  |
| 20                  | QPSK       | 1       | 49        | 24.17               | 24.18                  | 24.03                | 25.5          | 0        |  |  |
| 20                  | QPSK       | 1       | 99        | 24.04               | 24.22                  | 24.17                |               |          |  |  |
| 20                  | QPSK       | 50      | 0         | 23.00               | 23.12                  | 22.95                |               |          |  |  |
| 20                  | QPSK       | 50      | 24        | 23.04               | 23.06                  | 22.96                | 24.5          | 1        |  |  |
| 20                  | QPSK       | 50      | 50        | 22.92               | 23.00                  | 22.92                |               |          |  |  |
| 20                  | QPSK       | 100     | 0         | 22.89               | 23.00                  | 22.90                |               |          |  |  |
| 20                  | 16QAM      | 1       | 0         | 23.18               | 23.15                  | 23.08                |               |          |  |  |
| 20                  | 16QAM      | 1       | 49        | 23.20               | 23.00                  | 23.14                | 24.5          | 1        |  |  |
| 20                  | 16QAM      | 1       | 99        | 23.22               | 23.21                  | 23.16                |               |          |  |  |
| 20                  | 16QAM      | 50      | 0         | 21.91               | 22.09                  | 22.06                |               |          |  |  |
| 20                  | 16QAM      | 50      | 24        | 22.02               | 22.06                  | 21.90                | 23.5          | 2        |  |  |
| 20                  | 16QAM      | 50      | 50        | 22.09               | 22.05                  | 21.99                |               |          |  |  |
| 20                  | 16QAM      | 100     | 0         | 22.09               | 21.91                  | 22.23                |               |          |  |  |
| 20                  | 64QAM      | 1       | 0         | 21.95               | 22.00                  | 22.03                |               |          |  |  |
| 20                  | 64QAM      | 1       | 49        | 22.11               | 22.02                  | 21.94                | 23.5          | 2        |  |  |
| 20                  | 64QAM      | 1       | 99        | 21.98               | 22.11                  | 22.15                |               |          |  |  |
| 20                  | 64QAM      | 50      | 0         | 21.10               | 21.19                  | 21.13                |               |          |  |  |
| 20                  | 64QAM      | 50      | 24        | 21.12               | 21.05                  | 21.14                | 22.5          | 3        |  |  |
| 20                  | 64QAM      | 50      | 50        | 21.22               | 21.16                  | 21.10                |               |          |  |  |
| 20                  | 64QAM      | 100     | 0         | 21.03               | 21.08                  | 21.14                |               |          |  |  |
| Channel             |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |               |          |  |  |
| 15                  | QPSK       | 1       | 0         | 24.01               | 24.20                  | 24.13                |               |          |  |  |
| 15                  | QPSK       | 1       | 37        | 24.10               | 23.99                  | 24.00                | 25.5          | 0        |  |  |
| 15                  | QPSK       | 1       | 74        | 23.90               | 24.16                  | 24.14                |               |          |  |  |
| 15                  | QPSK       | 36      | 0         | 22.83               | 23.05                  | 22.92                |               |          |  |  |
| 15                  | QPSK       | 36      | 20        | 22.94               | 22.87                  | 22.77                | 24.5          | 1        |  |  |
| 15                  | QPSK       | 36      | 39        | 22.85               | 22.97                  | 22.90                |               |          |  |  |
| 15                  | QPSK       | 75      | 0         | 22.67               | 22.87                  | 22.79                |               |          |  |  |
| 15                  | 16QAM      | 1       | 0         | 23.05               | 23.00                  | 22.98                |               |          |  |  |
| 15                  | 16QAM      | 1       | 37        | 23.13               | 23.02                  | 23.00                | 24.5          | 1        |  |  |
| 15                  | 16QAM      | 1       | 74        | 23.05               | 23.18                  | 23.07                |               |          |  |  |
| 15                  | 16QAM      | 36      | 0         | 21.71               | 22.05                  | 21.85                |               |          |  |  |
| 15                  | 16QAM      | 36      | 20        | 21.85               | 21.89                  | 21.80                | 23.5          | 2        |  |  |
| 15                  | 16QAM      | 36      | 39        | 21.96               | 22.01                  | 21.85                |               |          |  |  |
| 15                  | 16QAM      | 75      | 0         | 21.88               | 21.75                  | 22.05                |               |          |  |  |
| 15                  | 16QAM      | 75      | 0         | 21.92               | 21.80                  | 21.99                | 23.5          | 2        |  |  |
| 15                  | 64QAM      | 1       | 37        | 21.93               | 21.96                  | 21.81                |               |          |  |  |
| 15                  | 64QAM      | 1       | 74        | 21.89               | 22.03                  | 22.00                |               |          |  |  |
| 15                  | 64QAM      | 36      | 0         | 21.03               | 20.99                  | 21.01                |               |          |  |  |
| 15                  | 64QAM      | 36      | 20        | 20.91               | 20.98                  | 21.05                | 22.5          | 3        |  |  |
| 15                  | 64QAM      | 36      | 39        | 21.18               | 21.12                  | 20.96                |               |          |  |  |
| 15                  | 64QAM      | 75      | 0         | 20.90               | 21.01                  | 20.96                |               |          |  |  |
| Channel             |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |               |          |  |  |
| 10                  | QPSK       | 1       | 0         | 23.99               | 24.05                  | 24.01                |               |          |  |  |
| 10                  | QPSK       | 1       | 25        | 24.12               | 24.02                  | 23.98                | 25.5          | 0        |  |  |
| 10                  | QPSK       | 1       | 49        | 23.92               | 24.16                  | 23.96                |               |          |  |  |
| 10                  | QPSK       | 25      | 0         | 22.82               | 23.05                  | 22.73                |               |          |  |  |
| 10                  | QPSK       | 25      | 12        | 22.92               | 22.98                  | 22.79                | 24.5          | 1        |  |  |
| 10                  | QPSK       | 25      | 25        | 22.89               | 22.85                  | 22.78                |               |          |  |  |
| 10                  | QPSK       | 50      | 0         | 22.70               | 22.81                  | 22.75                |               |          |  |  |
| 10                  | 16QAM      | 1       | 0         | 23.15               | 22.99                  | 22.90                |               |          |  |  |
| 10                  | 16QAM      | 1       | 25        | 23.02               | 22.81                  | 22.95                | 24.5          | 1        |  |  |
| 10                  | 16QAM      | 1       | 49        | 23.16               | 23.15                  | 23.12                |               |          |  |  |
| 10                  | 16QAM      | 25      | 0         | 21.98               | 21.97                  | 21.99                | 23.5          | 2        |  |  |
| 10                  | 16QAM      | 25      | 12        | 22.00               | 21.86                  | 21.73                |               |          |  |  |
| 10                  | 16QAM      | 25      | 25        | 21.91               | 21.97                  | 21.97                |               |          |  |  |
| 10                  | 16QAM      | 50      | 0         | 21.92               | 21.81                  | 22.06                |               |          |  |  |
| 10                  | 64QAM      | 1       | 0         | 21.90               | 21.91                  | 21.89                |               |          |  |  |
| 10                  | 64QAM      | 1       | 25        | 21.92               | 21.98                  | 21.74                | 23.5          | 2        |  |  |
| 10                  | 64QAM      | 1       | 49        | 21.92               | 22.01                  | 21.96                |               |          |  |  |
| 10                  | 64QAM      | 1       | 99        | 21.93               | 21.93                  | 20.94                |               |          |  |  |
| 10                  | 64QAM      | 25      | 0         | 21.09               | 20.97                  | 20.97                | 22.5          | 3        |  |  |
| 10                  | 64QAM      | 25      | 12        | 21.07               | 21.00                  | 21.02                |               |          |  |  |
| 10                  | 64QAM      | 25      | 25        | 21.17               | 21.10                  | 20.88                |               |          |  |  |
| 10                  | 64QAM      | 50      | 0         | 20.81               | 20.87                  | 21.03                |               |          |  |  |
| Channel             |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |               |          |  |  |
| 5                   | QPSK       | 1       | 0         | 23.97               | 24.19                  | 24.01                |               |          |  |  |
| 5                   | QPSK       | 1       | 14        | 24.14               | 24.04                  | 24.00                | 25.5          | 0        |  |  |
| 5                   | QPSK       | 1       | 28        | 23.93               | 24.17                  | 24.11                |               |          |  |  |
| 5                   | QPSK       | 12      | 0         | 22.90               | 23.05                  | 22.85                |               |          |  |  |
| 5                   | QPSK       | 12      | 7         | 22.98               | 22.90                  | 22.84                | 24.5          | 1        |  |  |
| 5                   | QPSK       | 12      | 13        | 22.86               | 23.03                  | 22.89                |               |          |  |  |
| 5                   | QPSK       | 25      | 0         | 22.81               | 22.86                  | 22.80                |               |          |  |  |
| 5                   | 16QAM      | 1       | 0         | 23.08               | 22.98                  | 22.99                |               |          |  |  |
| 5                   | 16QAM      | 1       | 12        | 23.01               | 22.83                  | 22.98                | 24.5          | 1        |  |  |
| 5                   | 16QAM      | 1       | 24        | 23.20               | 23.18                  | 23.14                |               |          |  |  |
| 5                   | 16QAM      | 12      | 0         | 21.77               | 21.88                  | 21.89                |               |          |  |  |
| 5                   | 16QAM      | 12      | 7         | 21.89               | 21.94                  | 21.78                | 23.5          | 2        |  |  |
| 5                   | 16QAM      | 12      | 13        | 21.90               | 21.89                  | 21.90                |               |          |  |  |
| 5                   | 16QAM      | 25      | 0         | 21.94               | 21.83                  | 22.08                |               |          |  |  |
| 5                   | 16QAM      | 25      | 0         | 21.78               | 21.84                  | 21.82                | 23.5          | 2        |  |  |
| 5                   | 64QAM      | 1       | 12        | 22.07               | 21.89                  | 21.79                |               |          |  |  |
| 5                   | 64QAM      | 1       | 24        | 21.90               | 21.93                  | 21.99                |               |          |  |  |
| 5                   | 64QAM      | 12      | 0         | 21.01               | 21.09                  | 20.91                |               |          |  |  |
| 5                   | 64QAM      | 12      | 7         | 21.04               | 20.90                  | 21.09                | 22.5          | 3        |  |  |
| 5                   | 64QAM      | 12      | 13        | 21.19               | 20.84                  | 21.08                |               |          |  |  |
| 5                   | 64QAM      | 25      | 0         | 20.97               | 21.02                  | 21.01                |               |          |  |  |
| Channel             |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |               |          |  |  |
| 3                   | QPSK       | 1       | 0         | 23.94               | 24.08                  | 24.00                |               |          |  |  |
| 3                   | QPSK       | 1       | 8         | 24.13               | 24.03                  | 23.96                | 25.5          | 0        |  |  |
| 3                   | QPSK       | 1       | 14        | 23.97               | 24.06                  | 23.95                |               |          |  |  |
| 3                   | QPSK       | 8       | 0         | 22.85               | 23.07                  | 22.78                |               |          |  |  |
| 3                   | QPSK       | 8       | 7         | 22.90               | 22.82                  | 22.86                | 24.5          | 1        |  |  |
| 3                   | QPSK       | 8       | 7         | 22.82               | 22.95                  | 22.88                |               |          |  |  |
| 3                   | QPSK       | 15      | 0         | 22.78               | 22.95                  | 22.84                |               |          |  |  |
| 3                   | 16QAM      | 1       | 0         | 23.01               | 23.08                  | 22.92                |               |          |  |  |
| 3                   | 16QAM      | 1       | 8         | 23.06               | 22.84                  | 22.92                | 24.5          | 1        |  |  |
| 3                   | 16QAM      | 8       | 0         | 21.87               | 21.95                  | 21.97                |               |          |  |  |
| 3                   | 16QAM      | 8       | 4         | 21.98               | 22.00                  | 21.69                | 23.5          | 2        |  |  |
| 3                   | 16QAM      | 15      | 0         | 21.89               | 21.96                  | 21.81                |               |          |  |  |
| 3                   | 64QAM      | 1       | 0         | 21.80               | 21.79                  | 21.97                |               |          |  |  |
| 3                   | 64QAM      | 1       | 8         | 22.04               | 21.88                  | 21.85                | 23.5          | 2        |  |  |
| 3                   | 64QAM      | 1       | 14        | 21.85               | 21.96                  | 22.02                |               |          |  |  |
| 3                   | 64QAM      | 8       | 0         | 20.94               | 21.14                  | 20.96                |               |          |  |  |
| 3                   | 64QAM      | 8       | 4         | 21.09               | 20.98                  | 21.11                | 22.5          | 3        |  |  |
| 3                   | 64QAM      | 8       | 7         | 21.12               | 21.08                  | 20.96                |               |          |  |  |
| 3                   | 64QAM      | 15      | 0         | 20.92               | 20.99                  | 21.10                |               |          |  |  |
| Channel             |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |               |          |  |  |
| 1.4                 | QPSK       | 1       | 0         | 24.07               | 24.19                  | 24.06                |               |          |  |  |
| 1.4                 | QPSK       | 1       | 3         | 24.01               | 24.08                  | 24.03                | 25.5          | 0        |  |  |
| 1.4                 | QPSK       | 1       | 5         | 23.95               | 24.02                  | 23.99                |               |          |  |  |
| 1.4                 | QPSK       | 3       | 0         | 24.12               | 24.20                  | 24.05                |               |          |  |  |
| 1.4                 | QPSK       | 3       | 1         | 24.06               | 24.01                  | 23.83                |               |          |  |  |
| 1.4                 | QPSK       | 3       | 3         | 23.97               | 24.00                  | 23.99                | 24.5          | 1        |  |  |
| 1.4                 | QPSK       | 6       | 0         | 22.86               | 22.93                  | 22.82                |               |          |  |  |
| 1.4                 | 16QAM      | 1       | 0         | 22.83               | 22.98                  | 22.96                |               |          |  |  |
| 1.4                 | 16QAM      | 1       | 3         | 22.98               | 23.04                  | 22.77                | 24.5          | 1        |  |  |
| 1.4                 | 16QAM      | 1       | 5         | 22.69               | 22.81                  | 22.83                |               |          |  |  |
| 1.4                 | 16QAM      | 3       | 0         | 23.08               | 22.95                  | 22.98                |               |          |  |  |
| 1.4                 | 16QAM      | 3       | 1         | 23.17               | 22.88                  | 23.04                | 23.5          | 2        |  |  |
| 1.4                 | 16QAM      | 3       | 3         | 23.06               | 23.04                  | 23.11                |               |          |  |  |
| 1.4                 | 16QAM      | 6       | 0         | 21.95               | 21.99                  | 21.99                |               |          |  |  |
| 1.4                 | 64QAM      | 1       | 0         | 21.82               | 22.01                  | 21.75                | 23.5          | 2        |  |  |
| 1.4                 | 64QAM      | 1       | 3         | 22.03               | 21.88                  | 21.85                |               |          |  |  |
| 1.4                 | 64QAM      | 1       | 5         | 22.04               | 21.88                  | 22.12                | 23.5          | 2        |  |  |
| 1.4                 | 64QAM      | 3       | 0         | 21.74               | 21.92                  | 21.95                |               |          |  |  |
| 1.4                 | 64QAM      | 3       | 1         | 22.04               | 21.96                  | 21.82                |               |          |  |  |
| 1.4                 | 64QAM      | 3       | 3         | 21.88               | 21.91                  | 22.11                | 22.5          | 3        |  |  |
| 1.4                 | 64QAM      | 6       | 0         | 20.91               | 21.15                  | 20.93                |               |          |  |  |

| Band 4 Ant4 Default |  |  |  |  |  |  |  |  |  |  |
|---------------------|--|--|--|--|--|--|--|--|--|--|
|---------------------|--|--|--|--|--|--|--|--|--|--|



| Band 13 Ant4 Default |             |         |           |                       |                          |                        |                     |          |  |  |
|----------------------|-------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]             | Modulat ion | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel              |             |         |           | 23259                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |             |         |           | 782                   |                          |                        |                     |          |  |  |
| 10                   | QPSK        | 1       | 0         | 24.24                 | 24.24                    | 24.14                  |                     |          |  |  |
| 10                   | QPSK        | 1       | 25        | 24.05                 | 24.05                    | 24.15                  | 25.5                | 0        |  |  |
| 10                   | QPSK        | 1       | 49        | 24.23                 | 24.23                    | 24.13                  |                     |          |  |  |
| 10                   | QPSK        | 25      | 0         | 23.17                 | 23.17                    | 23.16                  | 24.5                | 1        |  |  |
| 10                   | QPSK        | 25      | 12        | 22.96                 | 22.96                    | 22.98                  |                     |          |  |  |
| 10                   | QPSK        | 25      | 25        | 22.99                 | 22.99                    | 22.97                  |                     |          |  |  |
| 10                   | QPSK        | 50      | 0         | 23.06                 | 23.06                    | 23.05                  |                     |          |  |  |
| 10                   | 16QAM       | 1       | 0         | 23.18                 | 23.18                    | 23.15                  | 24.5                | 1        |  |  |
| 10                   | 16QAM       | 1       | 25        | 23.07                 | 23.07                    | 23.17                  |                     |          |  |  |
| 10                   | 16QAM       | 1       | 49        | 23.04                 | 23.04                    | 23.14                  |                     |          |  |  |
| 10                   | 16QAM       | 25      | 0         | 22.06                 | 22.06                    | 22.07                  | 23.5                | 2        |  |  |
| 10                   | 16QAM       | 25      | 12        | 22.07                 | 22.07                    | 22.08                  |                     |          |  |  |
| 10                   | 16QAM       | 25      | 25        | 22.18                 | 22.18                    | 22.12                  |                     |          |  |  |
| 10                   | 16QAM       | 50      | 0         | 22.11                 | 22.11                    | 22.12                  |                     |          |  |  |
| 10                   | 64QAM       | 1       | 0         | 22.34                 | 22.34                    | 22.32                  | 23.5                | 2        |  |  |
| 10                   | 64QAM       | 1       | 25        | 22.45                 | 22.45                    | 22.45                  |                     |          |  |  |
| 10                   | 64QAM       | 1       | 49        | 22.43                 | 22.43                    | 22.43                  |                     |          |  |  |
| 10                   | 64QAM       | 25      | 0         | 21.32                 | 21.32                    | 21.31                  | 22.5                | 3        |  |  |
| 10                   | 64QAM       | 25      | 12        | 21.23                 | 21.23                    | 21.23                  |                     |          |  |  |
| 10                   | 64QAM       | 25      | 25        | 21.43                 | 21.43                    | 21.43                  |                     |          |  |  |
| 10                   | 64QAM       | 50      | 0         | 21.28                 | 21.28                    | 21.28                  |                     |          |  |  |
| Channel              |             |         |           | 23205 23230 23255     |                          |                        |                     |          |  |  |
| Frequency (MHz)      |             |         |           | 779.5 782 784.5       |                          |                        |                     |          |  |  |
| 5                    | QPSK        | 1       | 0         | 24.05                 | 24.10                    | 24.14                  | 25.5                | 0        |  |  |
| 5                    | QPSK        | 1       | 12        | 23.89                 | 24.01                    | 23.96                  |                     |          |  |  |
| 5                    | QPSK        | 1       | 24        | 24.06                 | 24.11                    | 24.11                  |                     |          |  |  |
| 5                    | QPSK        | 12      | 0         | 23.14                 | 22.98                    | 22.98                  | 24.5                | 1        |  |  |
| 5                    | QPSK        | 12      | 7         | 22.87                 | 22.86                    | 22.85                  |                     |          |  |  |
| 5                    | QPSK        | 12      | 13        | 22.85                 | 22.92                    | 22.88                  |                     |          |  |  |
| 5                    | QPSK        | 25      | 0         | 22.99                 | 23.00                    | 22.96                  | 24.5                | 1        |  |  |
| 5                    | 16QAM       | 1       | 0         | 23.04                 | 23.04                    | 22.99                  | 24.5                | 1        |  |  |
| 5                    | 16QAM       | 1       | 12        | 22.93                 | 23.03                    | 22.85                  |                     |          |  |  |
| 5                    | 16QAM       | 1       | 24        | 22.83                 | 22.84                    | 22.99                  |                     |          |  |  |
| 5                    | 16QAM       | 12      | 0         | 21.99                 | 21.91                    | 21.85                  | 23.5                | 2        |  |  |
| 5                    | 16QAM       | 12      | 7         | 21.97                 | 21.97                    | 21.89                  |                     |          |  |  |
| 5                    | 16QAM       | 12      | 13        | 22.02                 | 21.99                    | 22.07                  |                     |          |  |  |
| 5                    | 16QAM       | 25      | 0         | 21.96                 | 22.02                    | 21.92                  |                     |          |  |  |
| 5                    | 64QAM       | 1       | 0         | 22.16                 | 22.24                    | 22.15                  | 23.5                | 2        |  |  |
| 5                    | 64QAM       | 1       | 12        | 22.30                 | 22.40                    | 22.23                  |                     |          |  |  |
| 5                    | 64QAM       | 1       | 24        | 22.38                 | 22.29                    | 22.23                  |                     |          |  |  |
| 5                    | 64QAM       | 12      | 0         | 21.16                 | 21.11                    | 21.12                  | 22.5                | 3        |  |  |
| 5                    | 64QAM       | 12      | 7         | 21.10                 | 21.17                    | 21.03                  |                     |          |  |  |
| 5                    | 64QAM       | 12      | 13        | 21.25                 | 21.21                    | 21.23                  |                     |          |  |  |
| 5                    | 64QAM       | 25      | 0         | 21.08                 | 21.19                    | 21.08                  |                     |          |  |  |

| Band 26 Ant4 Default |             |         |           |                       |                          |                        |                     |          |  |
|----------------------|-------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]             | Modulat ion | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel              |             |         |           | 26765 26895 26925     |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 821.5 831 841.5       |                          |                        |                     |          |  |
| 15                   | QPSK        | 1       | 0         | 24.06                 | 24.28                    | 24.12                  | 25.5                | 0        |  |
| 15                   | QPSK        | 1       | 37        | 24.03                 | 24.19                    | 24.04                  |                     |          |  |
| 15                   | QPSK        | 1       | 74        | 24.09                 | 24.07                    | 24.17                  |                     |          |  |
| 15                   | QPSK        | 36      | 0         | 23.06                 | 23.18                    | 23.16                  | 24.5                | 1        |  |
| 15                   | QPSK        | 36      | 20        | 23.14                 | 23.13                    | 23.08                  |                     |          |  |
| 15                   | QPSK        | 36      | 39        | 23.08                 | 22.98                    | 23.06                  |                     |          |  |
| 15                   | QPSK        | 75      | 0         | 23.15                 | 23.16                    | 23.01                  | 24.5                | 1        |  |
| 15                   | 16QAM       | 1       | 0         | 23.19                 | 23.33                    | 23.15                  | 24.5                | 1        |  |
| 15                   | 16QAM       | 1       | 37        | 23.13                 | 23.28                    | 23.31                  |                     |          |  |
| 15                   | 16QAM       | 1       | 74        | 23.23                 | 23.27                    | 23.14                  |                     |          |  |
| 15                   | 16QAM       | 36      | 0         | 22.08                 | 22.24                    | 22.21                  | 23.5                | 2        |  |
| 15                   | 16QAM       | 36      | 20        | 22.07                 | 22.33                    | 22.02                  |                     |          |  |
| 15                   | 16QAM       | 36      | 39        | 22.05                 | 22.20                    | 22.12                  |                     |          |  |
| 15                   | 16QAM       | 75      | 0         | 22.19                 | 22.37                    | 22.18                  | 23.5                | 2        |  |
| 15                   | 64QAM       | 1       | 0         | 22.05                 | 22.12                    | 22.06                  | 23.5                | 2        |  |
| 15                   | 64QAM       | 1       | 37        | 22.13                 | 22.08                    | 22.10                  |                     |          |  |
| 15                   | 64QAM       | 1       | 74        | 22.12                 | 22.10                    | 22.07                  |                     |          |  |
| 15                   | 64QAM       | 36      | 0         | 21.27                 | 21.27                    | 21.12                  | 22.5                | 3        |  |
| 15                   | 64QAM       | 36      | 20        | 21.17                 | 21.27                    | 21.12                  |                     |          |  |
| 15                   | 64QAM       | 36      | 39        | 21.12                 | 21.19                    | 21.16                  |                     |          |  |
| 15                   | 64QAM       | 75      | 0         | 21.12                 | 21.20                    | 21.13                  |                     |          |  |
| Channel              |             |         |           | 26740 26865 26890     |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 819 831.5 844         |                          |                        |                     |          |  |
| 10                   | QPSK        | 1       | 0         | 24.02                 | 24.12                    | 23.96                  | 25.5                | 0        |  |
| 10                   | QPSK        | 1       | 25        | 23.99                 | 24.11                    | 23.94                  |                     |          |  |
| 10                   | QPSK        | 1       | 49        | 23.88                 | 23.92                    | 23.99                  |                     |          |  |
| 10                   | QPSK        | 25      | 0         | 23.03                 | 22.97                    | 22.99                  | 24.5                | 1        |  |
| 10                   | QPSK        | 25      | 12        | 22.98                 | 22.94                    | 23.03                  |                     |          |  |
| 10                   | QPSK        | 25      | 25        | 22.90                 | 22.81                    | 22.93                  |                     |          |  |
| 10                   | QPSK        | 50      | 0         | 23.09                 | 23.14                    | 22.98                  | 24.5                | 1        |  |
| 10                   | 16QAM       | 1       | 0         | 22.00                 | 22.04                    | 21.98                  | 23.5                | 2        |  |
| 10                   | 16QAM       | 1       | 25        | 22.96                 | 23.22                    | 22.99                  |                     |          |  |
| 10                   | 16QAM       | 1       | 49        | 23.14                 | 23.21                    | 22.96                  |                     |          |  |
| 10                   | 16QAM       | 25      | 0         | 21.92                 | 22.13                    | 22.13                  | 23.5                | 2        |  |
| 10                   | 16QAM       | 25      | 12        | 22.04                 | 22.18                    | 21.96                  |                     |          |  |
| 10                   | 16QAM       | 25      | 25        | 21.99                 | 22.12                    | 21.99                  |                     |          |  |
| 10                   | 16QAM       | 50      | 0         | 22.08                 | 22.32                    | 22.00                  | 23.5                | 2        |  |
| 10                   | 64QAM       | 1       | 0         | 21.99                 | 22.01                    | 21.91                  | 22.5                | 3        |  |
| 10                   | 64QAM       | 1       | 25        | 22.10                 | 21.90                    | 22.04                  |                     |          |  |
| 10                   | 64QAM       | 1       | 49        | 22.05                 | 21.93                    | 22.02                  |                     |          |  |
| 10                   | 64QAM       | 25      | 0         | 20.93                 | 20.98                    | 20.75                  | 22.5                | 3        |  |
| 10                   | 64QAM       | 25      | 12        | 20.97                 | 21.14                    | 20.95                  |                     |          |  |
| 10                   | 64QAM       | 25      | 25        | 21.03                 | 21.03                    | 21.09                  |                     |          |  |
| 10                   | 64QAM       | 50      | 0         | 20.95                 | 21.01                    | 21.01                  |                     |          |  |
| Channel              |             |         |           | 26715 26845 27015     |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 816.5 831.5 846.5     |                          |                        |                     |          |  |
| 5                    | QPSK        | 1       | 0         | 23.91                 | 24.23                    | 23.90                  | 25.5                | 0        |  |
| 5                    | QPSK        | 1       | 12        | 23.83                 | 24.01                    | 24.00                  |                     |          |  |
| 5                    | QPSK        | 1       | 24        | 23.89                 | 24.02                    | 24.11                  |                     |          |  |
| 5                    | QPSK        | 12      | 0         | 22.90                 | 23.10                    | 23.10                  | 24.5                | 1        |  |
| 5                    | QPSK        | 12      | 7         | 23.04                 | 22.97                    | 23.04                  |                     |          |  |
| 5                    | QPSK        | 12      | 13        | 23.02                 | 22.78                    | 22.96                  |                     |          |  |
| 5                    | QPSK        | 25      | 0         | 23.09                 | 23.06                    | 22.93                  | 24.5                | 1        |  |
| 5                    | 16QAM       | 1       | 0         | 23.11                 | 23.27                    | 23.03                  | 24.5                | 1        |  |
| 5                    | 16QAM       | 1       | 12        | 22.96                 | 23.22                    | 23.14                  |                     |          |  |
| 5                    | 16QAM       | 1       | 24        | 23.20                 | 23.13                    | 22.98                  |                     |          |  |
| 5                    | 16QAM       | 12      | 0         | 21.92                 | 22.16                    | 22.14                  | 23.5                | 2        |  |
| 5                    | 16QAM       | 12      | 7         | 22.05                 | 22.30                    | 21.93                  |                     |          |  |
| 5                    | 16QAM       | 12      | 13        | 21.89                 | 22.11                    | 22.06                  |                     |          |  |
| 5                    | 16QAM       | 25      | 0         | 22.18                 | 22.27                    | 22.09                  | 23.5                | 2        |  |
| 5                    | 64QAM       | 1       | 0         | 22.01                 | 21.97                    | 21.89                  | 23.5                | 2        |  |
| 5                    | 64QAM       | 1       | 12        | 22.00                 | 21.96                    | 21.90                  |                     |          |  |
| 5                    | 64QAM       | 1       | 24        | 22.05                 | 22.03                    | 21.87                  |                     |          |  |
| 5                    | 64QAM       | 12      | 0         | 21.08                 | 21.01                    | 20.75                  | 22.5                | 3        |  |
| 5                    | 64QAM       | 12      | 7         | 21.12                 | 21.11                    | 21.10                  |                     |          |  |
| 5                    | 64QAM       | 12      | 13        | 20.92                 | 21.07                    | 21.12                  |                     |          |  |
| 5                    | 64QAM       | 25      | 0         | 21.06                 | 21.07                    | 21.08                  |                     |          |  |
| Channel              |             |         |           | 26705 26865 27025     |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 815.5 831.5 847.5     |                          |                        |                     |          |  |
| 3                    | QPSK        | 1       | 0         | 23.84                 | 24.12                    | 24.00                  | 25.5                | 0        |  |
| 3                    | QPSK        | 1       | 8         | 23.82                 | 24.10                    | 24.00                  |                     |          |  |
| 3                    | QPSK        | 1       | 14        | 24.07                 | 23.92                    | 24.05                  |                     |          |  |
| 3                    | QPSK        | 8       | 0         | 23.02                 | 23.04                    | 23.13                  | 24.5                | 1        |  |
| 3                    | QPSK        | 8       | 4         | 22.93                 | 23.06                    | 22.87                  |                     |          |  |
| 3                    | QPSK        | 8       | 7         | 23.01                 | 22.87                    | 23.03                  |                     |          |  |
| 3                    | QPSK        | 15      | 0         | 23.04                 | 23.11                    | 22.86                  | 24.5                | 1        |  |
| 3                    | 16QAM       | 1       | 0         | 23.03                 | 23.24                    | 23.11                  | 24.5                | 1        |  |
| 3                    | 16QAM       | 1       | 8         | 23.11                 | 23.10                    | 23.22                  |                     |          |  |
| 3                    | 16QAM       | 1       | 14        | 23.15                 | 23.13                    | 23.11                  |                     |          |  |
| 3                    | 16QAM       | 8       | 0         | 22.01                 | 22.08                    | 22.13                  | 23.5                | 2        |  |
| 3                    | 16QAM       | 8       | 4         | 21.85                 | 22.14                    | 21.85                  |                     |          |  |
| 3                    | 16QAM       | 8       | 7         | 21.84                 | 22.08                    | 21.92                  |                     |          |  |
| 3                    | 16QAM       | 15      | 0         | 22.13                 | 22.21                    | 22.12                  | 22.5                | 3        |  |
| 3                    | 64QAM       | 1       | 1         | 22.02                 | 22.02                    | 21.91                  |                     |          |  |
| 3                    | 64QAM       | 1       | 8         | 21.94                 | 21.94                    | 22.03                  |                     |          |  |
| 3                    | 64QAM       | 1       | 14        | 21.98                 | 21.91                    | 21.89                  |                     |          |  |
| 3                    | 64QAM       | 8       | 0         | 21.02                 | 21.00                    | 20.78                  | 22.5                | 3        |  |
| 3                    | 64QAM       | 8       | 4         | 21.10                 | 21.06                    | 21.00                  |                     |          |  |
| 3                    | 64QAM       | 8       | 7         | 20.92                 | 20.98                    | 21.08                  |                     |          |  |
| 3                    | 64QAM       |         |           |                       |                          |                        |                     |          |  |



| Band 38 Ant4 Default |            |         |           |                       |                          |                        |              |          |  |  |  |
|----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|--------------|----------|--|--|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up [dB] | MPR [dB] |  |  |  |
| Channel              |            |         |           | 37850                 | 38000                    | 38150                  |              |          |  |  |  |
| Frequency (MHz)      |            |         |           | 2580                  | 2595                     | 2610                   |              |          |  |  |  |
| 20                   | QPSK       | 1       | 0         | 24.07                 | 24.25                    | 24.21                  |              |          |  |  |  |
| 20                   | QPSK       | 1       | 49        | 24.23                 | 24.18                    | 24.12                  | 25.5         | 0        |  |  |  |
| 20                   | QPSK       | 1       | 99        | 24.03                 | 24.11                    | 24.20                  |              |          |  |  |  |
| 20                   | QPSK       | 50      | 0         | 23.27                 | 23.34                    | 23.30                  |              |          |  |  |  |
| 20                   | QPSK       | 50      | 24        | 23.09                 | 23.11                    | 23.13                  | 24.5         | 1        |  |  |  |
| 20                   | QPSK       | 50      | 50        | 23.14                 | 23.26                    | 23.23                  |              |          |  |  |  |
| 20                   | QPSK       | 100     | 0         | 23.20                 | 23.32                    | 23.29                  |              |          |  |  |  |
| 20                   | 16QAM      | 1       | 0         | 23.10                 | 23.29                    | 23.21                  |              |          |  |  |  |
| 20                   | 16QAM      | 1       | 49        | 23.11                 | 23.31                    | 23.14                  | 24.5         | 1        |  |  |  |
| 20                   | 16QAM      | 1       | 99        | 23.16                 | 23.23                    | 23.24                  |              |          |  |  |  |
| 20                   | 16QAM      | 50      | 0         | 22.48                 | 22.48                    | 22.26                  |              |          |  |  |  |
| 20                   | 16QAM      | 50      | 24        | 22.43                 | 22.52                    | 22.39                  | 23.5         | 2        |  |  |  |
| 20                   | 16QAM      | 50      | 50        | 22.33                 | 22.43                    | 22.41                  |              |          |  |  |  |
| 20                   | 64QAM      | 1       | 0         | 22.14                 | 22.36                    | 22.26                  |              |          |  |  |  |
| 20                   | 64QAM      | 1       | 49        | 22.29                 | 22.31                    | 22.33                  | 23.5         | 2        |  |  |  |
| 20                   | 64QAM      | 1       | 99        | 22.21                 | 22.30                    | 22.21                  |              |          |  |  |  |
| 20                   | 64QAM      | 50      | 0         | 21.11                 | 21.30                    | 21.22                  |              |          |  |  |  |
| 20                   | 64QAM      | 50      | 24        | 21.28                 | 21.22                    | 21.30                  | 22.5         | 3        |  |  |  |
| 20                   | 64QAM      | 50      | 50        | 21.27                 | 21.31                    | 21.33                  |              |          |  |  |  |
| 20                   | 64QAM      | 100     | 0         | 21.44                 | 21.45                    | 21.24                  |              |          |  |  |  |
| Channel              |            |         |           | 37825                 | 38000                    | 38175                  |              |          |  |  |  |
| Frequency (MHz)      |            |         |           | 2577.5                | 2595                     | 2612.5                 |              |          |  |  |  |
| 15                   | QPSK       | 1       | 0         | 23.93                 | 24.18                    | 24.07                  |              |          |  |  |  |
| 15                   | QPSK       | 1       | 37        | 24.11                 | 24.01                    | 23.95                  | 25.5         | 0        |  |  |  |
| 15                   | QPSK       | 1       | 74        | 23.88                 | 23.93                    | 24.12                  |              |          |  |  |  |
| 15                   | QPSK       | 36      | 0         | 23.21                 | 23.12                    | 23.19                  |              |          |  |  |  |
| 15                   | QPSK       | 36      | 20        | 23.01                 | 22.97                    | 23.03                  | 24.5         | 1        |  |  |  |
| 15                   | QPSK       | 36      | 39        | 22.95                 | 23.07                    | 23.09                  |              |          |  |  |  |
| 15                   | QPSK       | 75      | 0         | 23.17                 | 23.36                    | 23.24                  |              |          |  |  |  |
| 15                   | 16QAM      | 1       | 0         | 22.97                 | 23.11                    | 23.18                  |              |          |  |  |  |
| 15                   | 16QAM      | 1       | 37        | 22.92                 | 23.22                    | 23.11                  | 24.5         | 1        |  |  |  |
| 15                   | 16QAM      | 1       | 74        | 23.12                 | 23.17                    | 23.06                  |              |          |  |  |  |
| 15                   | 16QAM      | 36      | 0         | 22.31                 | 22.45                    | 22.20                  |              |          |  |  |  |
| 15                   | 16QAM      | 36      | 20        | 22.27                 | 22.35                    | 22.23                  | 23.5         | 2        |  |  |  |
| 15                   | 16QAM      | 36      | 39        | 22.18                 | 22.40                    | 22.38                  |              |          |  |  |  |
| 15                   | 16QAM      | 75      | 0         | 22.40                 | 22.24                    | 22.09                  |              |          |  |  |  |
| 15                   | 64QAM      | 1       | 0         | 22.06                 | 22.33                    | 22.08                  |              |          |  |  |  |
| 15                   | 64QAM      | 1       | 37        | 22.09                 | 22.19                    | 22.22                  | 23.5         | 2        |  |  |  |
| 15                   | 64QAM      | 1       | 74        | 22.13                 | 22.10                    | 21.99                  |              |          |  |  |  |
| 15                   | 64QAM      | 36      | 0         | 20.93                 | 21.22                    | 21.04                  |              |          |  |  |  |
| 15                   | 64QAM      | 36      | 20        | 21.21                 | 21.10                    | 21.19                  | 22.5         | 3        |  |  |  |
| 15                   | 64QAM      | 36      | 39        | 21.17                 | 21.19                    | 21.04                  |              |          |  |  |  |
| 15                   | 64QAM      | 75      | 0         | 21.35                 | 21.38                    | 21.08                  |              |          |  |  |  |
| Channel              |            |         |           | 37800                 | 38000                    | 38200                  |              |          |  |  |  |
| Frequency (MHz)      |            |         |           | 2575                  | 2595                     | 2615                   |              |          |  |  |  |
| 10                   | QPSK       | 1       | 0         | 24.01                 | 24.22                    | 24.13                  |              |          |  |  |  |
| 10                   | QPSK       | 1       | 25        | 24.12                 | 24.07                    | 23.94                  | 25.5         | 0        |  |  |  |
| 10                   | QPSK       | 1       | 49        | 23.90                 | 24.00                    | 23.99                  |              |          |  |  |  |
| 10                   | QPSK       | 25      | 0         | 23.11                 | 23.19                    | 23.20                  |              |          |  |  |  |
| 10                   | QPSK       | 25      | 12        | 23.04                 | 22.95                    | 23.09                  | 24.5         | 1        |  |  |  |
| 10                   | QPSK       | 25      | 25        | 23.08                 | 23.15                    | 23.01                  |              |          |  |  |  |
| 10                   | QPSK       | 50      | 0         | 22.99                 | 23.29                    | 23.15                  |              |          |  |  |  |
| 10                   | 16QAM      | 1       | 0         | 23.04                 | 23.22                    | 23.16                  |              |          |  |  |  |
| 10                   | 16QAM      | 1       | 25        | 23.08                 | 23.23                    | 23.08                  | 24.5         | 1        |  |  |  |
| 10                   | 16QAM      | 1       | 49        | 22.98                 | 23.20                    | 23.04                  |              |          |  |  |  |
| 10                   | 16QAM      | 25      | 0         | 22.42                 | 22.30                    | 22.24                  |              |          |  |  |  |
| 10                   | 16QAM      | 25      | 12        | 22.27                 | 22.41                    | 22.20                  | 23.5         | 2        |  |  |  |
| 10                   | 16QAM      | 25      | 25        | 22.16                 | 22.26                    | 22.19                  |              |          |  |  |  |
| 10                   | 16QAM      | 50      | 0         | 22.37                 | 22.39                    | 22.07                  |              |          |  |  |  |
| 10                   | 64QAM      | 1       | 0         | 22.10                 | 22.26                    | 22.06                  |              |          |  |  |  |
| 10                   | 64QAM      | 1       | 25        | 22.08                 | 22.26                    | 22.26                  | 23.5         | 2        |  |  |  |
| 10                   | 64QAM      | 1       | 49        | 22.16                 | 22.19                    | 22.03                  |              |          |  |  |  |
| 10                   | 64QAM      | 25      | 0         | 21.06                 | 21.24                    | 21.10                  |              |          |  |  |  |
| 10                   | 64QAM      | 25      | 12        | 21.25                 | 21.02                    | 21.12                  | 22.5         | 3        |  |  |  |
| 10                   | 64QAM      | 25      | 25        | 21.10                 | 21.11                    | 21.09                  |              |          |  |  |  |
| 10                   | 64QAM      | 50      | 0         | 21.24                 | 21.33                    | 21.11                  |              |          |  |  |  |
| Channel              |            |         |           | 37775                 | 38000                    | 38225                  |              |          |  |  |  |
| Frequency (MHz)      |            |         |           | 2572.5                | 2595                     | 2617.5                 |              |          |  |  |  |
| 5                    | QPSK       | 1       | 0         | 23.95                 | 24.16                    | 24.17                  |              |          |  |  |  |
| 5                    | QPSK       | 1       | 12        | 24.10                 | 24.01                    | 23.97                  | 25.5         | 0        |  |  |  |
| 5                    | QPSK       | 1       | 24        | 23.94                 | 24.03                    | 24.07                  |              |          |  |  |  |
| 5                    | QPSK       | 12      | 0         | 23.15                 | 23.31                    | 23.26                  |              |          |  |  |  |
| 5                    | QPSK       | 12      | 7         | 23.00                 | 22.89                    | 22.96                  | 24.5         | 1        |  |  |  |
| 5                    | QPSK       | 12      | 13        | 23.07                 | 23.15                    | 23.13                  |              |          |  |  |  |
| 5                    | QPSK       | 25      | 0         | 22.99                 | 23.21                    | 23.26                  |              |          |  |  |  |
| 5                    | 16QAM      | 1       | 0         | 22.93                 | 23.22                    | 23.04                  |              |          |  |  |  |
| 5                    | 16QAM      | 1       | 12        | 22.92                 | 23.10                    | 22.97                  | 24.5         | 1        |  |  |  |
| 5                    | 16QAM      | 1       | 24        | 23.00                 | 23.09                    | 23.21                  |              |          |  |  |  |
| 5                    | 16QAM      | 12      | 0         | 22.45                 | 22.45                    | 22.11                  |              |          |  |  |  |
| 5                    | 16QAM      | 12      | 7         | 22.32                 | 22.44                    | 22.29                  | 23.5         | 2        |  |  |  |
| 5                    | 16QAM      | 12      | 13        | 22.21                 | 22.30                    | 22.34                  |              |          |  |  |  |
| 5                    | 16QAM      | 25      | 0         | 22.33                 | 22.32                    | 22.00                  |              |          |  |  |  |
| 5                    | 64QAM      | 1       | 0         | 22.01                 | 22.32                    | 22.23                  | 23.5         | 2        |  |  |  |
| 5                    | 64QAM      | 1       | 12        | 22.17                 | 22.21                    | 22.23                  |              |          |  |  |  |
| 5                    | 64QAM      | 1       | 24        | 22.10                 | 22.23                    | 22.11                  |              |          |  |  |  |
| 5                    | 64QAM      | 12      | 0         | 20.93                 | 21.28                    | 21.19                  |              |          |  |  |  |
| 5                    | 64QAM      | 12      | 7         | 21.20                 | 21.15                    | 21.12                  | 22.5         | 3        |  |  |  |
| 5                    | 64QAM      | 12      | 13        | 21.20                 | 21.13                    | 21.05                  |              |          |  |  |  |
| 5                    | 64QAM      | 25      | 0         | 21.42                 | 21.29                    | 21.17                  |              |          |  |  |  |

| Band 41 Ant4 Default |            |         |           |                       |                          |                        |              |          |      |   |
|----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|--------------|----------|------|---|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up [dB] | MPR [dB] |      |   |
| Channel              |            |         |           | 39750                 | 40185                    | 40620                  |              |          |      |   |
| Frequency (MHz)      |            |         |           | 2506                  | 2548.5                   | 2593                   | 2636.5       | 2680     |      |   |
| 20                   | QPSK       | 1       | 0         | 23.92                 | 24.20                    | 24.30                  | 23.96        | 24.02    |      |   |
| 20                   | QPSK       | 1       | 49        | 24.16                 | 24.11                    | 24.26                  | 24.01        | 23.96    | 25.5 | 0 |
| 20                   | QPSK       | 1       | 99        | 24.09                 | 24.18                    | 24.16                  | 23.96        | 24.09    |      |   |
| 20                   | QPSK       | 50      | 0         | 23.26                 | 23.23                    | 23.35                  | 23.22        | 23.23    |      |   |
| 20                   | QPSK       | 50      | 24        | 23.23                 | 23.26                    | 23.19                  | 23.32        | 23.31    | 24.5 | 1 |
| 20                   | QPSK       | 50      | 50        | 23.19                 | 23.30                    | 23.28                  | 23.13        | 23.30    |      |   |
| 20                   | QPSK       | 100     | 0         | 23.19                 | 23.11                    | 23.26                  | 23.13        | 23.17    |      |   |
| 20                   | 16QAM      | 1       | 0         | 23.35                 | 23.23                    | 23.38                  | 23.39        | 23.40    |      |   |
| 20                   | 16QAM      | 1       | 49        | 23.29                 | 23.23                    | 23.38                  | 23.36        | 23.33    | 24.5 | 1 |
| 20                   | 16QAM      | 1       | 99        | 23.35                 | 23.17                    | 23.41                  | 23.36        | 23.36    |      |   |
| 20                   | 16QAM      | 50      | 0         | 22.15                 | 22.06                    | 22.22                  | 22.01        | 22.09    |      |   |
| 20                   | 16QAM      | 50      | 24        | 22.10                 | 22.04                    | 22.21                  | 22.10        | 22.06    | 23.5 | 2 |
| 20                   | 16QAM      | 50      | 50        | 22.23                 | 22.03                    | 22.27                  | 22.04        | 22.01    |      |   |
| 20                   | 64QAM      | 100     | 0         | 22.26                 | 22.11                    | 22.25                  | 22.22        | 22.06    |      |   |
| 20                   | 64QAM      | 1       | 0         | 22.33                 | 22.15                    | 22.32                  | 22.11        | 22.33    |      |   |
| 20                   | 64QAM      | 1       | 49        | 22.12                 | 22.30                    | 22.37                  | 22.21        | 22.16    | 23.5 | 2 |
| 20                   | 64QAM      | 1       | 99        | 22.33                 | 22.21                    | 22.44                  | 22.25        | 22.23    |      |   |
| 20                   | 64QAM      | 50      | 0         | 21.43                 | 21.40                    | 21.48                  | 21.39        | 21.41    |      |   |
| 20                   | 64QAM      | 50      | 24        | 21.35                 | 21.29                    | 21.47                  | 21.28        | 21.49    | 22.5 | 3 |
| 20                   | 64QAM      | 50      | 50        | 21.46                 | 21.30                    | 21.59                  | 21.31        | 21.27    |      |   |
| 20                   | 64QAM      | 100     | 0         | 21.25                 | 21.34                    | 21.35                  | 21.14        | 21.26    |      |   |
| Channel              |            |         |           | 39725                 | 40173                    | 40620                  | 41068        | 41615    |      |   |
| Frequency (MHz)      |            |         |           | 2503.5                | 2548.3                   | 2593                   | 2637.8       | 2682.5   |      |   |
| 15                   | QPSK       | 1       | 0         | 23.90                 | 24.13                    | 24.07                  | 23.82        | 23.92    |      |   |
| 15                   | QPSK       | 1       | 37        | 23.95                 | 24.20                    | 23.90                  | 23.93        | 23.91    | 26   | 0 |
| 15                   | QPSK       | 1       | 74        | 24.02                 | 24.03                    | 23.98                  | 23.75        | 24.03    |      |   |
| 15                   | QPSK       | 36      | 0         | 23.09                 | 23.32                    | 23.20                  | 23.06        | 23.16    |      |   |
| 15                   | QPSK       | 36      | 20        | 23.04                 | 23.17                    | 23.12                  | 23.28        | 22.91    | 24.5 | 1 |
| 15                   | QPSK       | 36      | 39        | 22.99                 | 23.19                    | 23.13                  | 23.03        | 23.11    |      |   |
| 15                   | QPSK       | 75      | 0         | 23.15                 | 23.17                    | 23.98                  | 22.95        | 22.99    |      |   |
| 15                   | 16QAM      | 1       | 0         | 23.13                 | 23.34                    | 23.96                  | 23.17        | 23.37    |      |   |
| 15                   | 16QAM      | 1       | 37        | 23.15                 | 23.21                    | 23.09                  |              |          |      |   |



Reduced Power Mode for DS11

| GSM850 Ant1 Default  |                           |       |       |                           |                           |       |       |                           |
|----------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
| GSM850<br>TX Channel | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|                      | 150                       | 180   | 251   |                           | 150                       | 180   | 251   |                           |
| Frequency (MHz)      | 824.2                     | 836.4 | 848.6 | 824.2                     | 836.4                     | 848.6 | 848.6 |                           |
| GSM 1 Tx slot        | 32.24                     | 32.41 | 32.57 | 33.50                     | 23.24                     | 23.41 | 23.57 | 24.50                     |
| GPRS 1 Tx slot       | 32.28                     | 32.49 | 32.63 | 33.50                     | 23.28                     | 23.49 | 23.63 | 24.50                     |
| GPRS 2 Tx slots      | 29.81                     | 29.88 | 30.08 | 30.50                     | 23.81                     | 23.88 | 24.09 | 24.50                     |
| GPRS 3 Tx slots      | 27.64                     | 27.92 | 27.83 | 28.50                     | 23.38                     | 23.39 | 23.57 | 24.24                     |
| GPRS 4 Tx slots      | 26.45                     | 26.74 | 26.71 | 27.50                     | 23.45                     | 23.74 | 23.71 | 24.50                     |
| EDGE 1 Tx slot       | 26.80                     | 26.74 | 26.75 | 28.00                     | 17.80                     | 17.74 | 17.75 | 18.00                     |
| EDGE 2 Tx slots      | 24.21                     | 24.12 | 24.30 | 25.00                     | 18.21                     | 18.12 | 18.30 | 18.00                     |
| EDGE 3 Tx slots      | 22.13                     | 22.06 | 22.08 | 23.00                     | 17.87                     | 17.80 | 17.82 | 18.74                     |
| EDGE 4 Tx slots      | 20.73                     | 20.78 | 20.98 | 22.00                     | 17.73                     | 17.78 | 17.98 | 18.00                     |

  

| GSM1900 Ant1 Default  |                           |       |        |                           |                           |        |        |                           |
|-----------------------|---------------------------|-------|--------|---------------------------|---------------------------|--------|--------|---------------------------|
| GSM1900<br>TX Channel | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |        |        | Tune-up<br>Limit<br>(dBm) |
|                       | 512                       | 661   | 810    |                           | 512                       | 661    | 810    |                           |
| Frequency (MHz)       | 1523.2                    | 1650  | 1803.2 | 1523.2                    | 1650                      | 1803.2 | 1803.2 |                           |
| GSM 1 Tx slot         | 28.78                     | 29.04 | 29.21  | 30.50                     | 19.78                     | 20.04  | 20.21  | 21.50                     |
| GPRS 1 Tx slot        | 28.78                     | 29.03 | 29.18  | 30.50                     | 19.78                     | 20.03  | 20.18  | 21.50                     |
| GPRS 2 Tx slots       | 26.01                     | 26.26 | 26.42  | 27.50                     | 20.01                     | 20.26  | 20.42  | 21.50                     |
| GPRS 3 Tx slots       | 24.26                     | 24.21 | 24.38  | 25.50                     | 20.00                     | 19.95  | 20.32  | 21.24                     |
| GPRS 4 Tx slots       | 23.15                     | 23.44 | 23.41  | 24.50                     | 20.15                     | 20.44  | 20.41  | 21.50                     |
| EDGE 1 Tx slot        | 25.84                     | 25.76 | 26.13  | 27.00                     | 16.84                     | 16.76  | 17.13  | 18.00                     |
| EDGE 2 Tx slots       | 22.70                     | 22.53 | 22.96  | 24.00                     | 16.70                     | 16.53  | 16.96  | 18.00                     |
| EDGE 3 Tx slots       | 20.87                     | 20.71 | 21.12  | 22.00                     | 16.71                     | 16.45  | 16.86  | 17.74                     |
| EDGE 4 Tx slots       | 20.04                     | 20.06 | 20.18  | 21.00                     | 17.04                     | 17.06  | 17.18  | 18.00                     |

| Band            | WCDMA II Ant1 Default   |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV Ant1 Default |       |       | WCDMA V Ant1 Default |       |       | Tune-up<br>Limit<br>(dBm) |       |       |
|-----------------|-------------------------|-------|--------|---------------------------|-----------------------|-------|-------|----------------------|-------|-------|---------------------------|-------|-------|
|                 | 9062                    | 9600  | 9538   |                           | 1312                  | 1413  | 1513  | 4132                 | 4182  | 4233  |                           |       |       |
| Frequency (MHz) | 1852.4                  | 1880  | 1907.8 | 1523.2                    | 1597                  | 1693  | 1788  | 4352                 | 4407  | 4462  |                           |       |       |
| IGPP Rel 99     | AMR 12.2kbps            | 23.46 | 23.58  | 23.54                     | 25.00                 | 23.54 | 23.71 | 23.58                | 25.00 | 23.55 | 23.68                     | 23.81 | 25.00 |
| IGPP Rel 99     | RMC 12.2kbps            | 23.54 | 23.65  | 23.64                     | 25.00                 | 23.76 | 23.77 | 23.67                | 25.00 | 23.56 | 23.69                     | 23.65 | 25.00 |
| IGPP Rel 6      | HSDPA Subtest-1         | 22.48 | 22.55  | 22.53                     | 24.00                 | 22.64 | 22.79 | 22.75                | 24.00 | 22.68 | 22.75                     | 22.71 | 24.00 |
| IGPP Rel 6      | HSDPA Subtest-2         | 22.50 | 22.53  | 22.41                     | 24.00                 | 22.59 | 22.70 | 22.64                | 24.00 | 22.63 | 22.66                     | 22.66 | 24.00 |
| IGPP Rel 6      | HSDPA Subtest-3         | 21.95 | 22.08  | 22.06                     | 23.50                 | 22.15 | 22.25 | 22.15                | 23.50 | 22.15 | 22.19                     | 22.19 | 23.50 |
| IGPP Rel 6      | HSDPA Subtest-4         | 21.93 | 22.05  | 21.93                     | 23.50                 | 22.13 | 22.19 | 22.13                | 23.50 | 22.12 | 22.21                     | 22.11 | 23.50 |
| IGPP Rel 8      | DC-HSDPA Subtest-1      | 22.42 | 22.50  | 22.51                     | 24.00                 | 22.66 | 22.89 | 22.80                | 24.00 | 22.63 | 22.68                     | 22.66 | 24.00 |
| IGPP Rel 8      | DC-HSDPA Subtest-2      | 22.41 | 22.45  | 22.41                     | 24.00                 | 22.57 | 22.65 | 22.63                | 24.00 | 22.54 | 22.58                     | 22.53 | 24.00 |
| IGPP Rel 8      | DC-HSDPA Subtest-3      | 21.92 | 22.06  | 21.96                     | 23.50                 | 22.05 | 22.20 | 22.05                | 23.50 | 22.02 | 22.19                     | 22.03 | 23.50 |
| IGPP Rel 8      | DC-HSDPA Subtest-4      | 21.87 | 21.99  | 21.91                     | 23.50                 | 22.01 | 22.08 | 22.08                | 23.50 | 22.00 | 22.14                     | 22.04 | 23.50 |
| IGPP Rel 8      | HSUPA Subtest-1         | 22.38 | 22.41  | 22.38                     | 24.00                 | 22.47 | 22.60 | 22.57                | 24.00 | 22.48 | 22.62                     | 22.60 | 24.00 |
| IGPP Rel 6      | HSUPA Subtest-2         | 20.46 | 20.61  | 20.55                     | 22.00                 | 20.64 | 20.71 | 20.62                | 22.00 | 20.69 | 20.77                     | 20.61 | 22.00 |
| IGPP Rel 6      | HSUPA Subtest-3         | 21.58 | 21.68  | 21.56                     | 23.00                 | 21.72 | 21.81 | 21.76                | 23.00 | 21.72 | 21.73                     | 21.75 | 23.00 |
| IGPP Rel 6      | HSUPA Subtest-4         | 20.38 | 20.55  | 20.38                     | 22.00                 | 20.55 | 20.68 | 20.59                | 22.00 | 20.59 | 20.69                     | 20.60 | 22.00 |
| IGPP Rel 6      | HSUPA Subtest-5         | 22.38 | 22.47  | 22.38                     | 24.00                 | 22.58 | 22.65 | 22.57                | 24.00 | 22.59 | 22.63                     | 22.64 | 24.00 |
| IGPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 19.98 | 20.13  | 20.06                     | 21.50                 | 20.22 | 20.34 | 20.26                | 21.50 | 20.16 | 20.36                     | 20.20 | 21.50 |



| Band 2 Ant1 Default |            |         |           |                     |                        |                      |                     |          |  |  |
|---------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|--|
| BW (MHz)            | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Turn-up limit (dBm) | MPR (dB) |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 20                  | QPSK       | 1       | 0         | 24.14               | 24.27                  | 24.05                |                     |          |  |  |
| 20                  | QPSK       | 1       | 49        | 24.05               | 24.18                  | 23.90                | 25.5                | 0        |  |  |
| 20                  | QPSK       | 1       | 99        | 24.01               | 24.24                  | 23.97                |                     |          |  |  |
| 20                  | QPSK       | 50      | 0         | 23.18               | 23.25                  | 23.16                |                     |          |  |  |
| 20                  | QPSK       | 50      | 24        | 23.04               | 23.21                  | 23.04                | 24.5                | 1        |  |  |
| 20                  | QPSK       | 50      | 60        | 23.05               | 23.11                  | 23.08                |                     |          |  |  |
| 20                  | QPSK       | 100     | 0         | 23.20               | 23.26                  | 23.13                |                     |          |  |  |
| 20                  | 16QAM      | 1       | 0         | 22.99               | 23.03                  | 22.96                |                     |          |  |  |
| 20                  | 16QAM      | 1       | 49        | 22.98               | 22.93                  | 22.91                | 24.5                | 1        |  |  |
| 20                  | 16QAM      | 1       | 99        | 22.89               | 22.88                  | 22.84                |                     |          |  |  |
| 20                  | 16QAM      | 50      | 0         | 22.19               | 22.33                  | 22.22                |                     |          |  |  |
| 20                  | 16QAM      | 50      | 24        | 22.05               | 22.26                  | 22.11                |                     |          |  |  |
| 20                  | 16QAM      | 50      | 60        | 22.09               | 22.26                  | 22.13                | 23.5                | 2        |  |  |
| 20                  | 16QAM      | 100     | 0         | 22.19               | 22.25                  | 22.11                |                     |          |  |  |
| 20                  | 64QAM      | 1       | 0         | 22.04               | 22.15                  | 22.05                |                     |          |  |  |
| 20                  | 64QAM      | 1       | 49        | 21.98               | 22.11                  | 21.97                | 23.5                | 2        |  |  |
| 20                  | 64QAM      | 1       | 99        | 21.83               | 22.01                  | 22.00                |                     |          |  |  |
| 20                  | 64QAM      | 50      | 0         | 21.18               | 21.32                  | 21.20                |                     |          |  |  |
| 20                  | 64QAM      | 50      | 24        | 21.14               | 21.21                  | 21.12                | 22.5                | 3        |  |  |
| 20                  | 64QAM      | 50      | 60        | 21.11               | 21.24                  | 21.10                |                     |          |  |  |
| 20                  | 64QAM      | 100     | 0         | 21.01               | 21.11                  | 21.05                |                     |          |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 15                  | QPSK       | 1       | 0         | 24.06               | 24.22                  | 23.96                |                     |          |  |  |
| 15                  | QPSK       | 1       | 37        | 23.83               | 24.15                  | 23.79                | 25.5                | 0        |  |  |
| 15                  | QPSK       | 1       | 74        | 23.80               | 24.19                  | 23.78                |                     |          |  |  |
| 15                  | QPSK       | 36      | 0         | 23.06               | 23.19                  | 23.07                |                     |          |  |  |
| 15                  | QPSK       | 36      | 20        | 22.92               | 22.89                  | 22.97                | 24.5                | 1        |  |  |
| 15                  | QPSK       | 36      | 39        | 23.01               | 22.92                  | 22.97                |                     |          |  |  |
| 15                  | QPSK       | 75      | 0         | 23.04               | 23.22                  | 23.07                |                     |          |  |  |
| 15                  | 16QAM      | 1       | 0         | 22.28               | 22.28                  | 22.28                | 24.5                | 1        |  |  |
| 15                  | 16QAM      | 1       | 37        | 22.93               | 22.74                  | 22.87                |                     |          |  |  |
| 15                  | 16QAM      | 1       | 74        | 22.86               | 22.81                  | 22.76                | 24.5                | 2        |  |  |
| 15                  | 16QAM      | 36      | 0         | 22.11               | 22.29                  | 22.08                |                     |          |  |  |
| 15                  | 16QAM      | 36      | 20        | 21.97               | 22.15                  | 22.05                | 23.5                | 2        |  |  |
| 15                  | 16QAM      | 36      | 39        | 21.99               | 22.14                  | 21.95                |                     |          |  |  |
| 15                  | 16QAM      | 75      | 0         | 22.04               | 22.22                  | 21.93                |                     |          |  |  |
| 15                  | 16QAM      | 1       | 0         | 21.87               | 21.98                  | 21.91                | 24.5                | 1        |  |  |
| 15                  | 64QAM      | 1       | 37        | 21.89               | 22.00                  | 21.79                | 23.5                | 2        |  |  |
| 15                  | 64QAM      | 1       | 74        | 21.77               | 21.83                  | 21.85                |                     |          |  |  |
| 15                  | 64QAM      | 36      | 0         | 21.00               | 21.23                  | 21.11                |                     |          |  |  |
| 15                  | 64QAM      | 36      | 20        | 20.92               | 21.16                  | 21.03                | 22.5                | 3        |  |  |
| 15                  | 64QAM      | 36      | 39        | 21.00               | 21.05                  | 20.95                |                     |          |  |  |
| 15                  | 64QAM      | 75      | 0         | 20.90               | 20.98                  | 20.98                |                     |          |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 10                  | QPSK       | 1       | 0         | 24.01               | 24.20                  | 23.96                |                     |          |  |  |
| 10                  | QPSK       | 1       | 25        | 23.87               | 24.09                  | 23.87                | 25.5                | 0        |  |  |
| 10                  | QPSK       | 1       | 49        | 23.88               | 24.10                  | 23.88                |                     |          |  |  |
| 10                  | QPSK       | 25      | 0         | 23.14               | 23.07                  | 22.98                |                     |          |  |  |
| 10                  | QPSK       | 25      | 12        | 22.95               | 22.96                  | 22.92                | 24.5                | 1        |  |  |
| 10                  | QPSK       | 25      | 25        | 22.98               | 23.00                  | 22.93                |                     |          |  |  |
| 10                  | QPSK       | 50      | 0         | 22.98               | 23.13                  | 23.06                |                     |          |  |  |
| 10                  | 16QAM      | 1       | 0         | 22.78               | 22.92                  | 22.89                |                     |          |  |  |
| 10                  | 16QAM      | 1       | 25        | 22.83               | 22.83                  | 22.81                | 24.5                | 1        |  |  |
| 10                  | 16QAM      | 1       | 49        | 22.78               | 22.72                  | 22.71                |                     |          |  |  |
| 10                  | 16QAM      | 25      | 0         | 22.01               | 22.12                  | 22.19                |                     |          |  |  |
| 10                  | 16QAM      | 25      | 12        | 21.92               | 22.06                  | 21.96                | 23.5                | 2        |  |  |
| 10                  | 16QAM      | 25      | 25        | 21.95               | 22.10                  | 22.05                |                     |          |  |  |
| 10                  | 16QAM      | 50      | 0         | 22.03               | 22.06                  | 22.04                |                     |          |  |  |
| 10                  | 64QAM      | 1       | 0         | 21.88               | 21.95                  | 21.88                |                     |          |  |  |
| 10                  | 64QAM      | 1       | 25        | 21.87               | 21.99                  | 21.80                | 23.5                | 2        |  |  |
| 10                  | 64QAM      | 1       | 49        | 21.75               | 21.87                  | 21.80                |                     |          |  |  |
| 10                  | 64QAM      | 25      | 0         | 21.26               | 21.37                  | 21.07                |                     |          |  |  |
| 10                  | 64QAM      | 25      | 12        | 20.95               | 21.05                  | 20.92                | 22.5                | 3        |  |  |
| 10                  | 64QAM      | 25      | 25        | 20.95               | 21.07                  | 20.98                |                     |          |  |  |
| 10                  | 64QAM      | 50      | 0         | 20.92               | 20.97                  | 20.83                |                     |          |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 5                   | QPSK       | 1       | 0         | 24.03               | 24.12                  | 23.92                |                     |          |  |  |
| 5                   | QPSK       | 1       | 12        | 23.84               | 24.13                  | 23.83                | 25.5                | 0        |  |  |
| 5                   | QPSK       | 1       | 24        | 23.82               | 24.20                  | 23.85                |                     |          |  |  |
| 5                   | QPSK       | 12      | 0         | 23.13               | 23.09                  | 23.13                |                     |          |  |  |
| 5                   | QPSK       | 12      | 7         | 22.85               | 22.93                  | 22.99                | 24.5                | 1        |  |  |
| 5                   | QPSK       | 12      | 13        | 22.88               | 23.03                  | 22.93                |                     |          |  |  |
| 5                   | QPSK       | 25      | 0         | 23.00               | 23.16                  | 23.00                |                     |          |  |  |
| 5                   | 16QAM      | 1       | 0         | 22.28               | 22.28                  | 22.28                | 24.5                | 1        |  |  |
| 5                   | 16QAM      | 1       | 12        | 22.93               | 22.76                  | 22.82                |                     |          |  |  |
| 5                   | 16QAM      | 1       | 24        | 22.85               | 22.69                  | 22.77                | 24.5                | 1        |  |  |
| 5                   | 16QAM      | 12      | 0         | 22.03               | 22.25                  | 22.03                |                     |          |  |  |
| 5                   | 16QAM      | 12      | 7         | 21.95               | 22.09                  | 22.06                | 23.5                | 2        |  |  |
| 5                   | 16QAM      | 12      | 13        | 21.90               | 22.06                  | 22.04                |                     |          |  |  |
| 5                   | 16QAM      | 25      | 0         | 22.06               | 22.16                  | 21.94                |                     |          |  |  |
| 5                   | 16QAM      | 25      | 12        | 22.00               | 22.10                  | 21.90                | 23.5                | 2        |  |  |
| 5                   | 64QAM      | 1       | 12        | 21.76               | 21.98                  | 21.80                |                     |          |  |  |
| 5                   | 64QAM      | 1       | 24        | 21.77               | 21.85                  | 21.91                | 23.5                | 2        |  |  |
| 5                   | 64QAM      | 12      | 0         | 20.97               | 21.27                  | 21.12                |                     |          |  |  |
| 5                   | 64QAM      | 12      | 7         | 20.99               | 21.15                  | 21.06                | 22.5                | 3        |  |  |
| 5                   | 64QAM      | 12      | 13        | 21.04               | 21.04                  | 20.99                |                     |          |  |  |
| 5                   | 64QAM      | 25      | 0         | 20.92               | 20.90                  | 20.99                |                     |          |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 3                   | QPSK       | 1       | 0         | 24.02               | 24.12                  | 23.90                |                     |          |  |  |
| 3                   | QPSK       | 1       | 8         | 23.83               | 24.11                  | 23.86                | 25.5                | 0        |  |  |
| 3                   | QPSK       | 1       | 14        | 23.82               | 24.17                  | 23.87                |                     |          |  |  |
| 3                   | QPSK       | 8       | 0         | 22.98               | 23.12                  | 23.06                |                     |          |  |  |
| 3                   | QPSK       | 8       | 4         | 22.93               | 23.02                  | 22.98                | 24.5                | 1        |  |  |
| 3                   | QPSK       | 8       | 7         | 22.83               | 22.96                  | 22.88                |                     |          |  |  |
| 3                   | QPSK       | 15      | 0         | 23.10               | 23.11                  | 23.05                |                     |          |  |  |
| 3                   | 16QAM      | 1       | 0         | 22.84               | 22.84                  | 22.83                |                     |          |  |  |
| 3                   | 16QAM      | 1       | 8         | 22.86               | 22.84                  | 22.84                | 24.5                | 1        |  |  |
| 3                   | 16QAM      | 8       | 0         | 22.08               | 22.16                  | 22.14                |                     |          |  |  |
| 3                   | 16QAM      | 8       | 4         | 21.85               | 22.12                  | 22.00                | 23.5                | 2        |  |  |
| 3                   | 16QAM      | 8       | 7         | 21.95               | 22.18                  | 22.03                |                     |          |  |  |
| 3                   | 16QAM      | 15      | 0         | 21.99               | 22.11                  | 21.92                |                     |          |  |  |
| 3                   | 64QAM      | 1       | 0         | 21.98               | 21.99                  | 21.84                |                     |          |  |  |
| 3                   | 64QAM      | 1       | 8         | 21.82               | 21.99                  | 21.83                | 23.5                | 2        |  |  |
| 3                   | 64QAM      | 1       | 14        | 21.91               | 21.83                  | 21.94                |                     |          |  |  |
| 3                   | 64QAM      | 8       | 0         | 21.12               | 21.20                  | 21.02                |                     |          |  |  |
| 3                   | 64QAM      | 8       | 4         | 20.93               | 21.16                  | 21.01                | 22.5                | 3        |  |  |
| 3                   | 64QAM      | 8       | 7         | 20.94               | 21.02                  | 21.06                |                     |          |  |  |
| 3                   | 64QAM      | 15      | 0         | 20.97               | 20.90                  | 20.91                |                     |          |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 1.4                 | QPSK       | 1       | 0         | 23.93               | 24.07                  | 23.89                |                     |          |  |  |
| 1.4                 | QPSK       | 1       | 3         | 23.86               | 24.13                  | 23.71                | 25.5                | 0        |  |  |
| 1.4                 | QPSK       | 1       | 5         | 23.94               | 24.02                  | 23.90                |                     |          |  |  |
| 1.4                 | QPSK       | 3       | 0         | 24.03               | 24.05                  | 23.83                |                     |          |  |  |
| 1.4                 | QPSK       | 3       | 1         | 24.01               | 23.97                  | 23.79                | 24.5                | 1        |  |  |
| 1.4                 | QPSK       | 3       | 3         | 23.86               | 24.07                  | 23.91                |                     |          |  |  |
| 1.4                 | QPSK       | 6       | 0         | 23.08               | 23.14                  | 23.09                |                     |          |  |  |
| 1.4                 | 16QAM      | 1       | 0         | 23.01               | 23.02                  | 22.99                | 24.5                | 1        |  |  |
| 1.4                 | 16QAM      | 1       | 3         | 22.98               | 23.03                  | 22.94                |                     |          |  |  |
| 1.4                 | 16QAM      | 1       | 5         | 23.00               | 23.11                  | 23.08                | 24.5                | 1        |  |  |
| 1.4                 | 16QAM      | 3       | 0         | 22.01               | 22.04                  | 22.88                |                     |          |  |  |
| 1.4                 | 16QAM      | 3       | 1         | 22.74               | 22.71                  | 22.71                |                     |          |  |  |
| 1.4                 | 16QAM      | 3       | 3         | 22.81               | 22.80                  | 22.82                | 23.5                | 2        |  |  |
| 1.4                 | 16QAM      | 6       | 0         | 22.09               | 22.20                  | 22.05                |                     |          |  |  |
| 1.4                 | 64QAM      | 1       | 0         | 21.89               | 22.20                  | 22.03                |                     |          |  |  |
| 1.4                 | 64QAM      | 1       | 3         | 21.97               | 22.19                  | 22.01                | 23.5                | 2        |  |  |
| 1.4                 | 64QAM      | 1       | 5         | 22.06               | 22.09                  | 21.91                |                     |          |  |  |
| 1.4                 | 64QAM      | 3       | 0         | 22.01               | 21.96                  | 21.87                |                     |          |  |  |
| 1.4                 | 64QAM      | 3       | 1         | 21.88               | 22.08                  | 22.05                | 22.5                | 3        |  |  |
| 1.4                 | 64QAM      | 3       | 3         | 22.02               | 22.04                  | 22.08                |                     |          |  |  |
| 1.4                 | 64QAM      | 6       | 0         | 20.98               | 20.99                  | 20.98                | 22.5                | 3        |  |  |



| Band 13 Ant1 Default |             |         |           |                       |                          |                        |                     |          |  |  |
|----------------------|-------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW (MHz)             | Modulat ion | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel              |             |         |           | 23259                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |             |         |           | 782                   |                          |                        |                     |          |  |  |
| 10                   | QPSK        | 1       | 0         | 24.34                 | 24.19                    | 24.13                  |                     |          |  |  |
| 10                   | QPSK        | 1       | 25        | 24.31                 |                          |                        | 25.5                | 0        |  |  |
| 10                   | QPSK        | 1       | 49        | 24.23                 |                          |                        |                     |          |  |  |
| 10                   | QPSK        | 25      | 0         | 23.31                 |                          |                        |                     |          |  |  |
| 10                   | QPSK        | 25      | 12        | 23.16                 |                          |                        | 24.5                | 1        |  |  |
| 10                   | QPSK        | 25      | 25        | 23.27                 |                          |                        |                     |          |  |  |
| 10                   | QPSK        | 50      | 0         | 23.32                 |                          |                        |                     |          |  |  |
| 10                   | 16QAM       | 1       | 0         | 23.31                 |                          |                        |                     |          |  |  |
| 10                   | 16QAM       | 1       | 25        | 23.18                 |                          |                        | 24.5                | 1        |  |  |
| 10                   | 16QAM       | 1       | 49        | 23.28                 |                          |                        |                     |          |  |  |
| 10                   | 16QAM       | 25      | 0         | 22.31                 |                          |                        |                     |          |  |  |
| 10                   | 16QAM       | 25      | 12        | 22.17                 |                          |                        | 23.5                | 2        |  |  |
| 10                   | 16QAM       | 25      | 25        | 22.26                 |                          |                        |                     |          |  |  |
| 10                   | 16QAM       | 50      | 0         | 22.36                 |                          |                        |                     |          |  |  |
| 10                   | 64QAM       | 1       | 0         | 22.23                 |                          |                        |                     |          |  |  |
| 10                   | 64QAM       | 1       | 25        | 22.10                 |                          |                        | 23.5                | 2        |  |  |
| 10                   | 64QAM       | 1       | 49        | 22.20                 |                          |                        |                     |          |  |  |
| 10                   | 64QAM       | 25      | 0         | 21.37                 |                          |                        |                     |          |  |  |
| 10                   | 64QAM       | 25      | 12        | 21.31                 |                          |                        | 22.5                | 3        |  |  |
| 10                   | 64QAM       | 25      | 25        | 21.26                 |                          |                        |                     |          |  |  |
| 10                   | 64QAM       | 50      | 0         | 21.29                 |                          |                        |                     |          |  |  |
| Channel              |             |         |           | 23205                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |             |         |           | 779.5                 |                          |                        |                     |          |  |  |
| 5                    | QPSK        | 1       | 0         | 24.15                 | 24.19                    | 24.13                  |                     |          |  |  |
| 5                    | QPSK        | 1       | 12        | 24.20                 | 24.14                    | 24.13                  |                     |          |  |  |
| 5                    | QPSK        | 1       | 24        | 24.08                 | 24.19                    | 24.07                  |                     |          |  |  |
| 5                    | QPSK        | 12      | 0         | 23.24                 | 23.13                    | 23.27                  |                     |          |  |  |
| 5                    | QPSK        | 12      | 7         | 22.97                 | 23.10                    | 23.07                  | 24.5                | 1        |  |  |
| 5                    | QPSK        | 12      | 13        | 23.21                 | 23.18                    | 23.24                  |                     |          |  |  |
| 5                    | QPSK        | 25      | 0         | 23.19                 | 23.10                    | 23.29                  |                     |          |  |  |
| 5                    | 16QAM       | 1       | 0         | 23.12                 | 23.12                    | 23.27                  |                     |          |  |  |
| 5                    | 16QAM       | 1       | 12        | 22.98                 | 23.15                    | 23.15                  | 24.5                | 1        |  |  |
| 5                    | 16QAM       | 1       | 24        | 23.23                 | 23.21                    | 23.12                  |                     |          |  |  |
| 5                    | 16QAM       | 12      | 0         | 22.14                 | 22.10                    | 22.20                  |                     |          |  |  |
| 5                    | 16QAM       | 12      | 7         | 22.14                 | 22.11                    | 21.99                  | 23.5                | 2        |  |  |
| 5                    | 16QAM       | 12      | 13        | 22.16                 | 22.22                    | 22.12                  |                     |          |  |  |
| 5                    | 16QAM       | 25      | 0         | 22.31                 | 22.30                    | 22.31                  |                     |          |  |  |
| 5                    | 64QAM       | 1       | 0         | 22.02                 | 22.06                    | 22.20                  |                     |          |  |  |
| 5                    | 64QAM       | 1       | 12        | 21.96                 | 22.03                    | 21.96                  | 23.5                | 2        |  |  |
| 5                    | 64QAM       | 1       | 24        | 22.15                 | 22.04                    | 22.11                  |                     |          |  |  |
| 5                    | 64QAM       | 12      | 0         | 21.34                 | 21.29                    | 21.32                  |                     |          |  |  |
| 5                    | 64QAM       | 12      | 7         | 21.22                 | 21.09                    | 21.21                  | 22.5                | 3        |  |  |
| 5                    | 64QAM       | 12      | 13        | 21.09                 | 21.14                    | 21.12                  |                     |          |  |  |
| 5                    | 64QAM       | 25      | 0         | 21.23                 | 21.23                    | 21.19                  |                     |          |  |  |

| Band 26 Ant1 Default |             |         |           |                       |                          |                        |                     |          |  |
|----------------------|-------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)             | Modulat ion | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel              |             |         |           | 26275                 |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 821.5                 |                          |                        |                     |          |  |
| 15                   | QPSK        | 1       | 0         | 24.02                 | 24.41                    | 24.19                  |                     |          |  |
| 15                   | QPSK        | 1       | 37        | 23.92                 | 24.29                    | 24.14                  | 25.5                | 0        |  |
| 15                   | QPSK        | 1       | 74        | 23.97                 | 24.28                    | 24.08                  |                     |          |  |
| 15                   | QPSK        | 36      | 0         | 22.98                 | 23.11                    | 23.06                  |                     |          |  |
| 15                   | QPSK        | 36      | 20        | 22.97                 | 23.00                    | 23.00                  | 24.5                | 1        |  |
| 15                   | QPSK        | 36      | 39        | 22.86                 | 22.97                    | 23.01                  |                     |          |  |
| 15                   | QPSK        | 75      | 0         | 23.01                 | 23.15                    | 23.14                  |                     |          |  |
| 15                   | 16QAM       | 1       | 0         | 23.02                 | 23.17                    | 23.11                  |                     |          |  |
| 15                   | 16QAM       | 1       | 37        | 22.87                 | 23.03                    | 23.06                  | 24.5                | 1        |  |
| 15                   | 16QAM       | 1       | 74        | 22.93                 | 23.08                    | 23.04                  |                     |          |  |
| 15                   | 16QAM       | 36      | 0         | 22.02                 | 22.20                    | 22.00                  |                     |          |  |
| 15                   | 16QAM       | 36      | 20        | 21.91                 | 22.12                    | 21.95                  | 23.5                | 2        |  |
| 15                   | 16QAM       | 36      | 39        | 21.94                 | 22.16                    | 21.96                  |                     |          |  |
| 15                   | 16QAM       | 75      | 0         | 21.87                 | 22.17                    | 22.02                  |                     |          |  |
| 15                   | 64QAM       | 1       | 0         | 22.02                 | 22.12                    | 22.13                  |                     |          |  |
| 15                   | 64QAM       | 1       | 37        | 21.92                 | 22.00                    | 22.02                  | 23.5                | 2        |  |
| 15                   | 64QAM       | 1       | 74        | 21.99                 | 22.04                    | 22.05                  |                     |          |  |
| 15                   | 64QAM       | 36      | 0         | 20.83                 | 21.04                    | 20.83                  |                     |          |  |
| 15                   | 64QAM       | 36      | 20        | 20.78                 | 20.94                    | 20.85                  | 22.5                | 3        |  |
| 15                   | 64QAM       | 36      | 39        | 20.69                 | 21.04                    | 20.90                  |                     |          |  |
| 15                   | 64QAM       | 75      | 0         | 20.88                 | 21.08                    | 21.08                  |                     |          |  |
| Channel              |             |         |           | 26286                 |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 819                   |                          |                        |                     |          |  |
| 10                   | QPSK        | 1       | 0         | 23.86                 | 24.38                    | 23.98                  |                     |          |  |
| 10                   | QPSK        | 1       | 25        | 23.80                 | 24.24                    | 23.92                  | 25.5                | 0        |  |
| 10                   | QPSK        | 1       | 49        | 23.89                 | 24.10                    | 23.92                  |                     |          |  |
| 10                   | QPSK        | 25      | 0         | 22.89                 | 22.98                    | 23.00                  |                     |          |  |
| 10                   | QPSK        | 25      | 12        | 22.67                 | 22.85                    | 22.82                  | 24.5                | 1        |  |
| 10                   | QPSK        | 25      | 25        | 22.81                 | 22.85                    | 22.79                  |                     |          |  |
| 10                   | QPSK        | 50      | 0         | 22.92                 | 23.11                    | 23.11                  |                     |          |  |
| 10                   | 16QAM       | 1       | 0         | 22.99                 | 22.85                    | 22.92                  |                     |          |  |
| 10                   | 16QAM       | 1       | 25        | 22.72                 | 22.82                    | 22.87                  | 24.5                | 1        |  |
| 10                   | 16QAM       | 1       | 49        | 22.89                 | 22.93                    | 22.94                  |                     |          |  |
| 10                   | 16QAM       | 25      | 0         | 21.83                 | 22.15                    | 21.96                  |                     |          |  |
| 10                   | 16QAM       | 25      | 12        | 21.70                 | 22.10                    | 21.91                  | 23.5                | 2        |  |
| 10                   | 16QAM       | 25      | 25        | 21.78                 | 22.11                    | 21.85                  |                     |          |  |
| 10                   | 16QAM       | 50      | 0         | 21.80                 | 22.09                    | 21.98                  |                     |          |  |
| 10                   | 64QAM       | 1       | 0         | 21.91                 | 22.05                    | 21.94                  |                     |          |  |
| 10                   | 64QAM       | 1       | 25        | 21.89                 | 21.85                    | 21.90                  | 23.5                | 2        |  |
| 10                   | 64QAM       | 1       | 49        | 21.78                 | 22.02                    | 21.93                  |                     |          |  |
| 10                   | 64QAM       | 25      | 0         | 20.75                 | 21.04                    | 20.82                  |                     |          |  |
| 10                   | 64QAM       | 25      | 12        | 20.68                 | 20.92                    | 20.80                  | 22.5                | 3        |  |
| 10                   | 64QAM       | 25      | 25        | 20.58                 | 20.86                    | 20.73                  |                     |          |  |
| 10                   | 64QAM       | 50      | 0         | 20.60                 | 20.85                    | 20.65                  |                     |          |  |
| Channel              |             |         |           | 26275                 |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 816.5                 |                          |                        |                     |          |  |
| 5                    | QPSK        | 1       | 0         | 23.82                 | 24.26                    | 24.13                  |                     |          |  |
| 5                    | QPSK        | 1       | 12        | 23.81                 | 24.26                    | 24.08                  | 25.5                | 0        |  |
| 5                    | QPSK        | 1       | 24        | 23.83                 | 24.15                    | 23.93                  |                     |          |  |
| 5                    | QPSK        | 12      | 0         | 22.95                 | 23.03                    | 22.91                  |                     |          |  |
| 5                    | QPSK        | 12      | 7         | 22.80                 | 22.88                    | 22.90                  | 24.5                | 1        |  |
| 5                    | QPSK        | 12      | 13        | 22.78                 | 22.83                    | 22.86                  |                     |          |  |
| 5                    | QPSK        | 25      | 0         | 22.88                 | 23.04                    | 22.99                  |                     |          |  |
| 5                    | 16QAM       | 1       | 0         | 22.85                 | 23.01                    | 22.91                  |                     |          |  |
| 5                    | 16QAM       | 1       | 12        | 22.66                 | 22.93                    | 23.00                  | 24.5                | 1        |  |
| 5                    | 16QAM       | 1       | 24        | 22.82                 | 22.87                    | 23.00                  |                     |          |  |
| 5                    | 16QAM       | 12      | 0         | 21.96                 | 22.25                    | 21.80                  |                     |          |  |
| 5                    | 16QAM       | 12      | 7         | 21.74                 | 21.93                    | 21.84                  | 23.5                | 2        |  |
| 5                    | 16QAM       | 12      | 13        | 21.90                 | 21.96                    | 21.83                  |                     |          |  |
| 5                    | 16QAM       | 25      | 0         | 21.82                 | 22.03                    | 21.88                  |                     |          |  |
| 5                    | 64QAM       | 1       | 0         | 21.85                 | 21.98                    | 21.91                  |                     |          |  |
| 5                    | 64QAM       | 1       | 12        | 21.86                 | 21.95                    | 21.98                  | 23.5                | 2        |  |
| 5                    | 64QAM       | 1       | 24        | 21.92                 | 21.84                    | 22.02                  |                     |          |  |
| 5                    | 64QAM       | 12      | 0         | 20.61                 | 20.86                    | 20.65                  |                     |          |  |
| 5                    | 64QAM       | 12      | 7         | 20.69                 | 20.75                    | 20.75                  | 22.5                | 3        |  |
| 5                    | 64QAM       | 12      | 13        | 20.65                 | 20.88                    | 20.84                  |                     |          |  |
| 5                    | 64QAM       | 25      | 0         | 20.73                 | 20.99                    | 20.98                  |                     |          |  |
| Channel              |             |         |           | 26286                 |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 815.5                 |                          |                        |                     |          |  |
| 3                    | QPSK        | 1       | 0         | 23.91                 | 24.32                    | 24.00                  |                     |          |  |
| 3                    | QPSK        | 1       | 8         | 23.83                 | 24.25                    | 24.04                  | 25.5                | 0        |  |
| 3                    | QPSK        | 1       | 14        | 23.88                 | 24.17                    | 23.91                  |                     |          |  |
| 3                    | QPSK        | 8       | 0         | 22.77                 | 22.99                    | 22.85                  |                     |          |  |
| 3                    | QPSK        | 8       | 4         | 22.78                 | 22.87                    | 22.80                  | 24.5                | 1        |  |
| 3                    | QPSK        | 8       | 7         | 22.81                 | 22.88                    | 22.81                  |                     |          |  |
| 3                    | QPSK        | 15      | 0         | 22.98                 | 23.01                    | 23.06                  |                     |          |  |
| 3                    | 16QAM       | 1       | 0         | 23.00                 | 23.96                    | 23.05                  |                     |          |  |
| 3                    | 16QAM       | 1       | 8         | 22.81                 | 22.89                    | 22.91                  | 24.5                | 1        |  |
| 3                    | 16QAM       | 1       | 14        | 22.78                 | 23.05                    | 22.92                  |                     |          |  |
| 3                    | 16QAM       | 8       | 0         | 21.90                 | 22.02                    | 21.96                  |                     |          |  |
| 3                    | 16QAM       | 8       | 4         | 21.79                 | 21.91                    | 21.83                  | 23.5                | 2        |  |
| 3                    | 16QAM       | 8       | 7         | 21.76                 | 22.11                    | 21.83                  |                     |          |  |
| 3                    | 16QAM       | 15      | 0         | 21.70                 | 21.96                    | 21.87                  |                     |          |  |
| 3                    | 64QAM       | 1       | 0         | 21.87                 | 22.06                    | 22.11                  |                     |          |  |
| 3                    | 64QAM       | 1       | 8         | 21.85                 | 21.87                    | 21.82                  | 23.5                | 2        |  |
| 3                    | 64QAM       | 1       | 14        | 21.80                 | 22.02                    | 21.85                  |                     |          |  |
| 3                    | 64QAM       | 8       | 0         | 20.81                 | 21.03                    | 20.90                  |                     |          |  |
| 3                    | 64QAM       | 8       | 4         | 20.67                 | 20.82                    | 20.65                  | 22.5                | 3        |  |
| 3                    | 64QAM       | 8       | 7         | 20.47                 | 20.96                    | 20.75                  |                     |          |  |
| 3                    | 64QAM       | 15      | 0         | 20.78                 | 21.02                    | 20.68                  |                     |          |  |
| Channel              |             |         |           | 26997                 |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 814.7                 |                          |                        |                     |          |  |
| 1.4                  | QPSK        | 1       | 0         | 23.93                 | 24.26                    | 23.99                  |                     |          |  |
| 1.4                  | QPSK        | 1       | 3         | 23.74                 | 24.09                    | 23.94                  | 25.5                | 0        |  |
| 1.4                  | QPSK        | 1       | 5         | 23.92                 | 24.10                    | 24.02                  |                     |          |  |

| 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 [dB] | MPR [dB] |  |  |  |
| Channel              |            |         |           | 37850                 | 38000                    | 38150                  |              |          |  |  |  |
| Frequency (MHz)      |            |         |           | 2580                  | 2595                     | 2610                   |              |          |  |  |  |
| 20                   | QPSK       | 1       | 0         | 24.01                 | 24.12                    | 24.08                  |              |          |  |  |  |
| 20                   | QPSK       | 1       | 49        | 23.91                 | 24.02                    | 24.01                  | 25.5         | 0        |  |  |  |
| 20                   | QPSK       | 1       | 99        | 23.88                 | 24.06                    | 23.98                  |              |          |  |  |  |
| 20                   | QPSK       | 50      | 0         | 23.01                 | 23.11                    | 23.06                  |              |          |  |  |  |
| 20                   | QPSK       | 50      | 24        | 22.98                 | 22.96                    | 22.98                  | 24.5         | 1        |  |  |  |
| 20                   | QPSK       | 50      | 50        | 22.86                 | 23.07                    | 22.93                  |              |          |  |  |  |
| 20                   | QPSK       | 100     | 0         | 23.04                 | 23.09                    | 22.97                  |              |          |  |  |  |
| 20                   | 16QAM      | 1       | 0         | 22.86                 | 23.07                    | 23.01                  |              |          |  |  |  |
| 20                   | 16QAM      | 1       | 49        | 22.92                 | 22.83                    | 22.85                  | 24.5         | 1        |  |  |  |
| 20                   | 16QAM      | 1       | 99        | 22.77                 | 22.93                    | 22.84                  |              |          |  |  |  |
| 20                   | 16QAM      | 50      | 0         | 22.07                 | 22.12                    | 22.06                  |              |          |  |  |  |
| 20                   | 16QAM      | 50      | 24        | 22.04                 | 21.99                    | 22.01                  | 23.5         | 2        |  |  |  |
| 20                   | 16QAM      | 50      | 50        | 22.00                 | 22.06                    | 21.98                  |              |          |  |  |  |
| 20                   | 16QAM      | 100     | 0         | 22.00                 | 22.11                    | 22.08                  |              |          |  |  |  |
| 20                   | 64QAM      | 1       | 0         | 22.11                 | 22.22                    | 22.18                  |              |          |  |  |  |
| 20                   | 64QAM      | 1       | 49        | 22.00                 | 22.12                    | 22.09                  | 23.5         | 2        |  |  |  |
| 20                   | 64QAM      | 1       | 99        | 21.87                 | 22.02                    | 22.03                  |              |          |  |  |  |
| 20                   | 64QAM      | 50      | 0         | 21.10                 | 21.20                    | 21.15                  |              |          |  |  |  |
| 20                   | 64QAM      | 50      | 24        | 21.01                 | 21.08                    | 21.08                  | 22.5         | 3        |  |  |  |
| 20                   | 64QAM      | 50      | 50        | 20.99                 | 21.12                    | 21.08                  |              |          |  |  |  |
| 20                   | 64QAM      | 100     | 0         | 21.07                 | 21.19                    | 21.10                  |              |          |  |  |  |
| Channel              |            |         |           | 37825                 | 38000                    | 38175                  |              |          |  |  |  |
| Frequency (MHz)      |            |         |           | 2577.5                | 2595                     | 2612.5                 |              |          |  |  |  |
| 15                   | QPSK       | 1       | 0         | 23.90                 | 23.94                    | 23.90                  |              |          |  |  |  |
| 15                   | QPSK       | 1       | 37        | 23.88                 | 23.90                    | 23.84                  | 26           | 0        |  |  |  |
| 15                   | QPSK       | 1       | 74        | 23.85                 | 23.98                    | 23.82                  |              |          |  |  |  |
| 15                   | QPSK       | 36      | 0         | 22.87                 | 22.93                    | 22.89                  |              |          |  |  |  |
| 15                   | QPSK       | 36      | 20        | 22.92                 | 22.81                    | 22.81                  | 24.5         | 1        |  |  |  |
| 15                   | QPSK       | 36      | 39        | 22.86                 | 22.88                    | 22.87                  |              |          |  |  |  |
| 15                   | QPSK       | 75      | 0         | 22.98                 | 22.91                    | 22.98                  |              |          |  |  |  |
| 15                   | 16QAM      | 1       | 0         | 22.83                 | 23.02                    | 22.92                  |              |          |  |  |  |
| 15                   | 16QAM      | 1       | 37        | 22.77                 | 22.73                    | 22.76                  | 24.5         | 1        |  |  |  |
| 15                   | 16QAM      | 1       | 74        | 22.66                 | 22.90                    | 22.73                  |              |          |  |  |  |
| 15                   | 16QAM      | 36      | 0         | 21.94                 | 21.90                    | 21.87                  |              |          |  |  |  |
| 15                   | 16QAM      | 36      | 20        | 21.97                 | 21.78                    | 21.86                  | 23.5         | 2        |  |  |  |
| 15                   | 16QAM      | 36      | 39        | 21.81                 | 22.02                    | 21.93                  |              |          |  |  |  |
| 15                   | 16QAM      | 75      | 0         | 21.83                 | 22.03                    | 22.05                  |              |          |  |  |  |
| 15                   | 64QAM      | 1       | 0         | 22.07                 | 22.08                    | 22.14                  |              |          |  |  |  |
| 15                   | 64QAM      | 1       | 37        | 21.88                 | 21.91                    | 22.01                  | 23.5         | 2        |  |  |  |
| 15                   | 64QAM      | 1       | 74        | 21.84                 | 21.97                    | 21.84                  |              |          |  |  |  |
| 15                   | 64QAM      | 36      | 0         | 21.01                 | 21.00                    | 21.02                  |              |          |  |  |  |
| 15                   | 64QAM      | 36      | 39        | 20.80                 | 20.87                    | 20.90                  | 22.5         | 3        |  |  |  |
| 15                   | 64QAM      | 36      | 39        | 20.90                 | 20.91                    | 21.04                  |              |          |  |  |  |
| 15                   | 64QAM      | 75      | 0         | 20.86                 | 21.16                    | 21.06                  |              |          |  |  |  |
| Channel              |            |         |           | 37800                 | 38000                    | 38200                  |              |          |  |  |  |
| Frequency (MHz)      |            |         |           | 2575                  | 2595                     | 2615                   |              |          |  |  |  |
| 10                   | QPSK       | 1       | 0         | 23.94                 | 24.05                    | 23.95                  |              |          |  |  |  |
| 10                   | QPSK       | 1       | 25        | 23.86                 | 23.81                    | 23.91                  | 25.5         | 0        |  |  |  |
| 10                   | QPSK       | 1       | 49        | 23.70                 | 23.66                    | 23.95                  |              |          |  |  |  |
| 10                   | QPSK       | 25      | 0         | 22.82                 | 22.96                    | 22.96                  |              |          |  |  |  |
| 10                   | QPSK       | 25      | 12        | 22.77                 | 22.86                    | 22.92                  | 24.5         | 1        |  |  |  |
| 10                   | QPSK       | 25      | 25        | 22.81                 | 23.00                    | 22.79                  |              |          |  |  |  |
| 10                   | QPSK       | 50      | 0         | 22.94                 | 22.94                    | 22.80                  |              |          |  |  |  |
| 10                   | 16QAM      | 1       | 0         | 22.80                 | 23.01                    | 22.85                  |              |          |  |  |  |
| 10                   | 16QAM      | 1       | 25        | 22.83                 | 22.73                    | 22.81                  | 24.5         | 1        |  |  |  |
| 10                   | 16QAM      | 1       | 49        | 22.84                 | 22.86                    | 22.68                  |              |          |  |  |  |
| 10                   | 16QAM      | 25      | 0         | 21.90                 | 22.06                    | 22.03                  |              |          |  |  |  |
| 10                   | 16QAM      | 25      | 12        | 22.00                 | 21.91                    | 21.81                  | 23.5         | 2        |  |  |  |
| 10                   | 16QAM      | 25      | 25        | 21.85                 | 21.85                    | 21.88                  |              |          |  |  |  |
| 10                   | 16QAM      | 50      | 0         | 21.85                 | 21.94                    | 21.97                  |              |          |  |  |  |
| 10                   | 64QAM      | 1       | 0         | 22.07                 | 22.11                    | 22.08                  |              |          |  |  |  |
| 10                   | 64QAM      | 1       | 25        | 21.95                 | 22.08                    | 22.01                  | 23.5         | 2        |  |  |  |
| 10                   | 64QAM      | 1       | 49        | 21.68                 | 21.86                    | 21.83                  |              |          |  |  |  |
| 10                   | 64QAM      | 1       | 24        | 21.02                 | 21.11                    | 21.08                  |              |          |  |  |  |
| 10                   | 64QAM      | 25      | 12        | 20.95                 | 20.88                    | 21.05                  |              |          |  |  |  |
| 10                   | 64QAM      | 25      | 25        | 20.87                 | 20.91                    | 20.87                  | 22.5         | 3        |  |  |  |
| 10                   | 64QAM      | 50      | 0         | 21.01                 | 21.11                    | 20.90                  |              |          |  |  |  |
| Channel              |            |         |           | 37775                 | 38000                    | 38225                  |              |          |  |  |  |
| Frequency (MHz)      |            |         |           | 2572.5                | 2595                     | 2617.5                 |              |          |  |  |  |
| 5                    | QPSK       | 1       | 0         | 23.96                 | 24.07                    | 24.04                  |              |          |  |  |  |
| 5                    | QPSK       | 1       | 12        | 23.86                 | 23.94                    | 23.95                  | 25.5         | 0        |  |  |  |
| 5                    | QPSK       | 1       | 24        | 23.67                 | 23.87                    | 23.85                  |              |          |  |  |  |
| 5                    | QPSK       | 12      | 0         | 22.97                 | 23.00                    | 22.95                  |              |          |  |  |  |
| 5                    | QPSK       | 12      | 7         | 22.88                 | 22.85                    | 22.87                  | 24.5         | 1        |  |  |  |
| 5                    | QPSK       | 12      | 13        | 22.73                 | 22.89                    | 22.87                  |              |          |  |  |  |
| 5                    | 16QAM      | 1       | 0         | 22.79                 | 22.99                    | 22.90                  |              |          |  |  |  |
| 5                    | 16QAM      | 1       | 12        | 22.74                 | 22.61                    | 22.69                  | 24.5         | 1        |  |  |  |
| 5                    | 16QAM      | 1       | 24        | 22.84                 | 22.74                    | 22.72                  |              |          |  |  |  |
| 5                    | 16QAM      | 12      | 0         | 22.01                 | 21.91                    | 21.94                  |              |          |  |  |  |
| 5                    | 16QAM      | 12      | 7         | 21.88                 | 21.81                    | 21.97                  | 23.5         | 2        |  |  |  |
| 5                    | 16QAM      | 12      | 13        | 21.81                 | 22.03                    | 21.83                  |              |          |  |  |  |
| 5                    | 16QAM      | 25      | 0         | 21.85                 | 21.98                    | 21.93                  |              |          |  |  |  |
| 5                    | 64QAM      | 1       | 0         | 22.07                 | 22.01                    | 22.03                  | 23.5         | 2        |  |  |  |
| 5                    | 64QAM      | 1       | 12        | 21.81                 | 21.97                    | 21.89                  |              |          |  |  |  |
| 5                    | 64QAM      | 1       | 24        | 21.72                 | 21.89                    | 21.82                  |              |          |  |  |  |
| 5                    | 64QAM      | 12      | 0         | 20.92                 | 21.17                    | 21.11                  |              |          |  |  |  |
| 5                    | 64QAM      | 12      | 7         | 20.87                 | 21.03                    | 21.07                  | 22.5         | 3        |  |  |  |
| 5                    | 64QAM      | 12      | 13        | 20.79                 | 20.94                    | 21.05                  |              |          |  |  |  |
| 5                    | 64QAM      | 25      | 0         | 20.88                 | 20.99                    | 20.99                  |              |          |  |  |  |

| Band 41 Ant1 Default |            |         |           |                       |                          |                        |              |          |      |   |  |
|----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|--------------|----------|------|---|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up [dB] | MPR [dB] |      |   |  |
| Channel              |            |         |           | 39750                 | 40185                    | 40620                  |              |          |      |   |  |
| Frequency (MHz)      |            |         |           | 2506                  | 2548.5                   | 2593                   |              |          |      |   |  |
| 20                   | QPSK       | 1       | 0         | 23.91                 | 23.98                    | 24.15                  | 24.09        | 24.06    |      |   |  |
| 20                   | QPSK       | 1       | 49        | 23.84                 | 23.85                    | 24.12                  | 24.01        | 23.95    | 25.5 | 0 |  |
| 20                   | QPSK       | 1       | 99        | 23.80                 | 23.89                    | 24.01                  | 23.97        | 23.96    |      |   |  |
| 20                   | QPSK       | 50      | 0         | 23.04                 | 23.09                    | 23.14                  | 23.11        | 23.09    |      |   |  |
| 20                   | QPSK       | 50      | 24        | 22.91                 | 23.00                    | 23.05                  | 23.03        | 22.94    | 24.5 | 1 |  |
| 20                   | QPSK       | 50      | 50        | 22.98                 | 22.98                    | 23.01                  | 23.04        | 22.98    |      |   |  |
| 20                   | QPSK       | 100     | 0         | 22.95                 | 23.03                    | 23.07                  | 22.92        | 22.98    |      |   |  |
| 20                   | 16QAM      | 1       | 0         | 23.05                 | 22.99                    | 23.10                  | 22.97        | 22.99    |      |   |  |
| 20                   | 16QAM      | 1       | 49        | 22.93                 | 22.85                    | 23.03                  | 22.85        | 22.87    | 24.5 | 1 |  |
| 20                   | 16QAM      | 1       | 99        | 22.99                 | 22.95                    | 23.04                  | 22.91        | 22.82    |      |   |  |
| 20                   | 16QAM      | 50      | 0         | 21.88                 | 21.94                    | 21.97                  | 21.90        | 21.91    |      |   |  |
| 20                   | 16QAM      | 50      | 24        | 21.74                 | 21.86                    | 21.85                  | 21.75        | 21.85    | 23.5 | 2 |  |
| 20                   | 16QAM      | 50      | 50        | 21.76                 | 21.88                    | 21.88                  | 21.84        | 21.77    |      |   |  |
| 20                   | 16QAM      | 100     | 0         | 22.00                 | 22.03                    | 22.09                  | 22.04        | 21.98    |      |   |  |
| 20                   | 64QAM      | 1       | 0         | 22.12                 | 22.04                    | 22.18                  | 22.09        | 22.10    |      |   |  |
| 20                   | 64QAM      | 1       | 49        | 22.08                 | 21.97                    | 22.05                  | 22.01        | 22.04    | 23.5 | 2 |  |
| 20                   | 64QAM      | 1       | 99        | 21.98                 | 21.96                    | 22.06                  | 21.97        | 22.04    |      |   |  |
| 20                   | 64QAM      | 50      | 0         | 21.04                 | 20.99                    | 21.08                  | 20.98        | 21.02    |      |   |  |
| 20                   | 64QAM      | 50      | 24        | 20.98                 | 20.89                    | 20.93                  | 20.95        | 20.89    | 22.5 | 3 |  |
| 20                   | 64QAM      | 50      | 50        | 20.93                 | 20.85                    | 20.99                  | 20.83        | 20.76    |      |   |  |
| 20                   | 64QAM      | 100     | 0         | 20.98                 | 21.01                    | 21.10                  | 20.98        | 20.98    |      |   |  |
| Channel              |            |         |           | 39725                 | 40173                    | 40620                  | 41068        | 41516    |      |   |  |
| Frequency (MHz)      |            |         |           | 2503.5                | 2548.3                   | 2593                   | 2637.8       | 2682.5   |      |   |  |
| 15                   | QPSK       | 1       | 0         | 23.70                 | 23.79                    | 24.06                  | 23.91        | 23.86    |      |   |  |
| 15                   | QPSK       | 1       | 37        | 23.78                 | 23.70                    | 24.07                  | 23.81        | 23.83    | 26   | 0 |  |
| 15                   | QPSK       | 1       | 74        | 23.61                 | 23.68                    | 23.84                  | 23.81        | 23.77    |      |   |  |
| 15                   | QPSK       | 36      | 0         | 22.84                 | 22.92                    | 22.98                  | 23.00        | 22.90    |      |   |  |
| 15                   | QPSK       | 36      | 20        | 22.86                 | 22.92                    | 22.99                  | 22.95        | 22.84    | 24.5 | 1 |  |
| 15                   | QPSK       | 36      | 39        | 22.91                 | 22.88                    | 22.91                  | 22.86        | 22.86    |      |   |  |
| 15                   | QPSK       | 75      | 0         | 22.82                 | 22.82                    | 23.04                  | 22.89        | 22.76    |      |   |  |
| 15                   | 16QAM      | 1       | 0         | 22.86                 | 22.89                    | 22.96                  | 22.89        | 22.76    |      |   |  |
| 15                   | 16QAM      | 1       | 37        | 22.80                 |                          |                        |              |          |      |   |  |

| GSM850 An4 DSH1      |                           |       |       |                           |                           |       |       |                           |  |
|----------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|--|
| GSM850<br>TX Channel | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |  |
|                      | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |  |
| Frequency (MHz)      | 182.2                     | 183.4 | 183.8 | 30.00                     | 19.12                     | 19.24 | 19.18 | 21.00                     |  |
| GSM 1 Tx slot        | 29.00                     | 29.18 | 29.28 | 30.00                     | 20.00                     | 20.18 | 20.28 | 21.00                     |  |
| GPRS 1 Tx slot       | 29.02                     | 29.22 | 29.32 | 30.00                     | 20.02                     | 20.22 | 20.32 | 21.00                     |  |
| GPRS 2 Tx slots      | 25.85                     | 25.94 | 25.94 | 27.50                     | 19.85                     | 19.94 | 19.94 | 21.50                     |  |
| GPRS 3 Tx slots      | 23.57                     | 23.74 | 23.74 | 25.50                     | 18.31                     | 18.48 | 18.48 | 21.24                     |  |
| GPRS 4 Tx slots      | 22.54                     | 22.71 | 22.71 | 24.50                     | 18.54                     | 19.57 | 19.51 | 21.50                     |  |
| EDGE 1 Tx slot       | 23.14                     | 23.14 | 23.03 | 24.50                     | 14.14                     | 14.14 | 14.03 | 15.50                     |  |
| EDGE 2 Tx slots      | 20.45                     | 20.67 | 20.51 | 22.00                     | 14.45                     | 14.67 | 14.51 | 18.00                     |  |
| EDGE 3 Tx slots      | 18.01                     | 18.04 | 18.07 | 20.00                     | 13.75                     | 13.78 | 13.91 | 15.74                     |  |
| EDGE 4 Tx slots      | 18.92                     | 17.10 | 18.74 | 18.50                     | 13.92                     | 14.10 | 13.74 | 15.50                     |  |

| GSM1900 An4 Default   |                           |       |        |                           |                           |       |       |                           |  |
|-----------------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|-------|---------------------------|--|
| GSM1900<br>TX Channel | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |  |
|                       | 512                       | 861   | 810    |                           | 512                       | 861   | 810   |                           |  |
| Frequency (MHz)       | 1850.2                    | 1860  | 1909.8 | 30.00                     | 18.50                     | 18.60 | 18.50 | 21.00                     |  |
| GSM 1 Tx slot         | 28.87                     | 28.98 | 29.27  | 30.00                     | 19.87                     | 19.98 | 20.27 | 21.00                     |  |
| GPRS 1 Tx slot        | 28.91                     | 29.00 | 29.31  | 30.00                     | 19.91                     | 20.00 | 20.31 | 21.00                     |  |
| GPRS 2 Tx slots       | 26.05                     | 26.48 | 26.43  | 27.50                     | 20.05                     | 20.48 | 20.43 | 21.50                     |  |
| GPRS 3 Tx slots       | 24.17                     | 24.23 | 24.59  | 25.00                     | 19.91                     | 19.97 | 20.33 | 20.74                     |  |
| GPRS 4 Tx slots       | 22.87                     | 22.77 | 23.07  | 23.50                     | 19.87                     | 19.77 | 20.07 | 20.50                     |  |
| EDGE 1 Tx slot        | 25.33                     | 25.38 | 25.73  | 26.00                     | 16.33                     | 16.38 | 16.73 | 17.00                     |  |
| EDGE 2 Tx slots       | 22.27                     | 22.39 | 22.44  | 22.50                     | 16.27                     | 16.39 | 16.44 | 16.50                     |  |
| EDGE 3 Tx slots       | 20.44                     | 20.46 | 20.42  | 20.50                     | 16.18                     | 16.20 | 16.16 | 16.24                     |  |
| EDGE 4 Tx slots       | 19.40                     | 19.33 | 19.46  | 19.50                     | 16.40                     | 16.33 | 16.46 | 16.50                     |  |

| Band                               | WCDMA II An4 DSH1 |       |        | WCDMA IV An4 DSH1 |        |        | WCDMA V An4 DSH1 |       |       | Tune-up<br>Limit<br>(dBm) |       |       |
|------------------------------------|-------------------|-------|--------|-------------------|--------|--------|------------------|-------|-------|---------------------------|-------|-------|
|                                    | 9262              | 9400  | 9538   | 1312              | 1413   | 1513   | 4132             | 4182  | 4233  |                           |       |       |
| Rx Channel                         | 9662              | 9800  | 9938   | 1537              | 1638   | 1739   | 4357             | 4407  | 4458  | 21.00                     |       |       |
| Frequency (MHz)                    | 1852.4            | 1860  | 1869.8 | 1742.4            | 1732.2 | 1742.2 | 3264             | 3264  | 3268  | 21.00                     |       |       |
| 3GPP Rel 99 AMR 12.2kbps           | 17.75             | 17.82 | 17.72  | 19.00             | 13.96  | 14.15  | 14.05            | 15.50 | 22.18 | 22.39                     | 22.36 | 23.50 |
| 3GPP Rel 99 RMC 12.2kbps           | 17.80             | 17.85 | 17.74  | 19.00             | 14.03  | 14.23  | 13.93            | 15.50 | 22.29 | 22.40                     | 22.37 | 23.50 |
| 3GPP Rel 6 HSDPA Subtest-1         | 16.63             | 16.85 | 18.77  | 18.00             | 12.94  | 13.08  | 13.04            | 14.50 | 21.47 | 21.38                     | 21.47 | 22.50 |
| 3GPP Rel 6 HSDPA Subtest-2         | 16.70             | 16.79 | 16.67  | 18.00             | 12.97  | 13.05  | 12.96            | 14.50 | 21.31 | 21.47                     | 21.31 | 22.50 |
| 3GPP Rel 6 HSDPA Subtest-3         | 16.25             | 16.41 | 16.31  | 17.50             | 12.44  | 12.51  | 12.52            | 14.00 | 20.89 | 20.94                     | 20.90 | 22.00 |
| 3GPP Rel 6 HSDPA Subtest-4         | 16.20             | 16.37 | 16.21  | 17.50             | 12.48  | 12.49  | 12.50            | 14.00 | 20.90 | 21.02                     | 20.93 | 22.00 |
| 3GPP Rel 6 DC-HSDPA Subtest-1      | 16.86             | 16.79 | 18.71  | 18.00             | 12.94  | 12.99  | 12.94            | 14.50 | 21.43 | 21.50                     | 21.41 | 22.50 |
| 3GPP Rel 6 DC-HSDPA Subtest-2      | 16.58             | 16.65 | 16.69  | 18.00             | 12.94  | 12.95  | 12.96            | 14.50 | 21.32 | 21.52                     | 21.29 | 22.50 |
| 3GPP Rel 6 DC-HSDPA Subtest-3      | 16.08             | 16.36 | 16.27  | 17.50             | 12.45  | 12.56  | 12.44            | 14.00 | 20.78 | 20.99                     | 20.87 | 22.00 |
| 3GPP Rel 6 DC-HSDPA Subtest-4      | 16.03             | 16.16 | 18.11  | 17.50             | 12.35  | 12.47  | 12.39            | 14.00 | 20.72 | 20.84                     | 20.83 | 22.00 |
| 3GPP Rel 6 HSUPA Subtest-1         | 16.60             | 16.68 | 16.64  | 18.00             | 12.83  | 12.91  | 12.84            | 14.50 | 21.25 | 21.40                     | 21.41 | 22.50 |
| 3GPP Rel 6 HSUPA Subtest-2         | 14.69             | 14.85 | 14.80  | 18.00             | 10.90  | 11.11  | 11.02            | 12.50 | 18.41 | 19.00                     | 19.40 | 20.50 |
| 3GPP Rel 6 HSUPA Subtest-3         | 15.84             | 15.98 | 15.84  | 17.00             | 12.04  | 12.13  | 11.98            | 13.50 | 20.51 | 20.84                     | 20.56 | 21.50 |
| 3GPP Rel 6 HSUPA Subtest-4         | 14.85             | 14.76 | 14.65  | 18.00             | 10.89  | 11.09  | 10.80            | 12.50 | 19.29 | 19.35                     | 19.41 | 20.50 |
| 3GPP Rel 6 HSUPA Subtest-5         | 16.63             | 16.71 | 16.66  | 18.00             | 12.82  | 13.02  | 12.84            | 14.50 | 21.45 | 21.46                     | 21.34 | 22.50 |
| 3GPP Rel 7 HSPA+ (FDD-M) Subtest-1 | 14.25             | 14.33 | 14.25  | 15.50             | 10.48  | 10.65  | 10.52            | 12.00 | 18.00 | 19.02                     | 18.03 | 20.00 |



| Band 2 Ant4 DSI1  |            |         |           |                     |                        |                      |                     |          |  |  |
|-------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel           |            |         |           |                     |                        |                      |                     |          |  |  |
| 18700 18800 19150 |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)   |            |         |           |                     |                        |                      |                     |          |  |  |
| 20                | QPSK       | 1       | 0         | 18.05               | 18.16                  | 18.15                |                     |          |  |  |
| 20                | QPSK       | 1       | 49        | 18.03               | 18.14                  | 17.89                | 19.5                | 0        |  |  |
| 20                | QPSK       | 1       | 99        | 17.92               | 18.15                  | 18.14                |                     |          |  |  |
| 20                | QPSK       | 50      | 0         | 18.04               | 18.12                  | 18.08                |                     |          |  |  |
| 20                | QPSK       | 50      | 24        | 18.09               | 18.11                  | 17.90                | 19.5                | 0        |  |  |
| 20                | QPSK       | 50      | 74        | 17.85               | 18.11                  | 18.10                |                     |          |  |  |
| 20                | QPSK       | 100     | 0         | 18.08               | 18.09                  | 18.08                |                     |          |  |  |
| 20                | 16QAM      | 1       | 0         | 18.02               | 18.08                  | 17.98                |                     |          |  |  |
| 20                | 16QAM      | 1       | 49        | 17.92               | 18.12                  | 18.04                | 19.5                | 0        |  |  |
| 20                | 16QAM      | 1       | 99        | 18.07               | 18.14                  | 18.12                |                     |          |  |  |
| 20                | 16QAM      | 50      | 0         | 18.14               | 18.06                  | 17.94                |                     |          |  |  |
| 20                | 16QAM      | 50      | 24        | 17.85               | 18.11                  | 18.10                | 19.5                | 0        |  |  |
| 20                | 16QAM      | 50      | 74        | 18.05               | 18.14                  | 18.12                |                     |          |  |  |
| 20                | 16QAM      | 100     | 0         | 18.13               | 18.10                  | 17.93                |                     |          |  |  |
| 20                | 64QAM      | 1       | 0         | 17.92               | 18.15                  | 18.12                |                     |          |  |  |
| 20                | 64QAM      | 1       | 49        | 18.01               | 18.13                  | 18.09                | 19.5                | 0        |  |  |
| 20                | 64QAM      | 1       | 99        | 18.08               | 18.09                  | 17.92                |                     |          |  |  |
| 20                | 64QAM      | 50      | 0         | 17.91               | 18.12                  | 18.04                |                     |          |  |  |
| 20                | 64QAM      | 50      | 24        | 18.09               | 18.04                  | 18.08                | 19.5                | 0        |  |  |
| 20                | 64QAM      | 50      | 74        | 17.85               | 18.05                  | 17.96                |                     |          |  |  |
| 20                | 64QAM      | 100     | 0         | 17.94               | 18.15                  | 18.04                |                     |          |  |  |
| Channel           |            |         |           |                     |                        |                      |                     |          |  |  |
| 18675 18900 19125 |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)   |            |         |           |                     |                        |                      |                     |          |  |  |
| 15                | QPSK       | 1       | 0         | 17.85               | 18.00                  | 18.07                |                     |          |  |  |
| 15                | QPSK       | 1       | 37        | 17.97               | 18.02                  | 17.80                | 19.5                | 0        |  |  |
| 15                | QPSK       | 1       | 74        | 17.76               | 18.08                  | 18.02                |                     |          |  |  |
| 15                | QPSK       | 36      | 0         | 17.98               | 18.06                  | 17.98                |                     |          |  |  |
| 15                | QPSK       | 36      | 20        | 18.04               | 17.97                  | 17.84                | 19.5                | 0        |  |  |
| 15                | QPSK       | 36      | 39        | 17.81               | 17.96                  | 17.96                |                     |          |  |  |
| 15                | QPSK       | 75      | 0         | 17.84               | 17.96                  | 17.93                |                     |          |  |  |
| 15                | 16QAM      | 1       | 0         | 17.87               | 18.02                  | 17.92                |                     |          |  |  |
| 15                | 16QAM      | 1       | 37        | 17.82               | 18.02                  | 17.82                | 19.5                | 0        |  |  |
| 15                | 16QAM      | 1       | 74        | 18.01               | 18.00                  | 18.10                |                     |          |  |  |
| 15                | 16QAM      | 36      | 0         | 18.00               | 17.95                  | 17.85                |                     |          |  |  |
| 15                | 16QAM      | 36      | 20        | 17.85               | 18.00                  | 18.00                | 19.5                | 0        |  |  |
| 15                | 16QAM      | 36      | 39        | 17.83               | 18.02                  | 18.01                |                     |          |  |  |
| 15                | 16QAM      | 75      | 0         | 18.06               | 17.97                  | 17.95                |                     |          |  |  |
| 15                | 16QAM      | 75      | 0         | 17.82               | 18.11                  | 18.06                | 19.5                | 0        |  |  |
| 15                | 64QAM      | 1       | 37        | 17.96               | 18.03                  | 17.96                |                     |          |  |  |
| 15                | 64QAM      | 1       | 74        | 17.96               | 18.03                  | 17.83                |                     |          |  |  |
| 15                | 64QAM      | 36      | 0         | 17.82               | 18.08                  | 17.88                |                     |          |  |  |
| 15                | 64QAM      | 36      | 20        | 17.97               | 17.88                  | 18.04                | 19.5                | 0        |  |  |
| 15                | 64QAM      | 36      | 39        | 17.87               | 18.09                  | 17.98                |                     |          |  |  |
| 15                | 64QAM      | 75      | 0         | 17.85               | 18.03                  | 17.95                |                     |          |  |  |
| Channel           |            |         |           |                     |                        |                      |                     |          |  |  |
| 18850 18900 19150 |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)   |            |         |           |                     |                        |                      |                     |          |  |  |
| 10                | QPSK       | 1       | 0         | 17.93               | 18.09                  | 18.08                |                     |          |  |  |
| 10                | QPSK       | 1       | 25        | 17.92               | 18.01                  | 17.74                | 19.5                | 0        |  |  |
| 10                | QPSK       | 1       | 49        | 17.85               | 18.07                  | 18.00                |                     |          |  |  |
| 10                | QPSK       | 25      | 0         | 17.88               | 18.06                  | 18.00                |                     |          |  |  |
| 10                | QPSK       | 25      | 12        | 18.04               | 17.95                  | 17.82                | 19.5                | 0        |  |  |
| 10                | QPSK       | 25      | 25        | 17.86               | 18.07                  | 17.92                |                     |          |  |  |
| 10                | QPSK       | 50      | 0         | 17.99               | 18.00                  | 18.01                |                     |          |  |  |
| 10                | 16QAM      | 1       | 0         | 17.88               | 18.02                  | 17.88                |                     |          |  |  |
| 10                | 16QAM      | 1       | 25        | 17.88               | 18.04                  | 18.00                | 19.5                | 0        |  |  |
| 10                | 16QAM      | 1       | 49        | 18.02               | 18.04                  | 18.10                |                     |          |  |  |
| 10                | 16QAM      | 25      | 0         | 18.07               | 17.95                  | 17.80                |                     |          |  |  |
| 10                | 16QAM      | 25      | 12        | 17.77               | 17.96                  | 17.95                | 19.5                | 0        |  |  |
| 10                | 16QAM      | 25      | 25        | 17.95               | 18.06                  | 18.03                |                     |          |  |  |
| 10                | 16QAM      | 50      | 0         | 18.06               | 18.01                  | 17.79                |                     |          |  |  |
| 10                | 64QAM      | 1       | 0         | 17.83               | 18.04                  | 17.97                |                     |          |  |  |
| 10                | 64QAM      | 1       | 25        | 17.86               | 17.97                  | 17.97                | 19.5                | 0        |  |  |
| 10                | 64QAM      | 1       | 49        | 18.01               | 17.99                  | 17.86                |                     |          |  |  |
| 10                | 64QAM      | 25      | 0         | 17.87               | 18.03                  | 17.86                |                     |          |  |  |
| 10                | 64QAM      | 25      | 12        | 17.98               | 18.12                  | 18.02                | 19.5                | 0        |  |  |
| 10                | 64QAM      | 25      | 25        | 17.99               | 17.95                  | 17.91                |                     |          |  |  |
| 10                | 64QAM      | 50      | 0         | 17.81               | 18.00                  | 17.93                |                     |          |  |  |
| Channel           |            |         |           |                     |                        |                      |                     |          |  |  |
| 18625 18800 19175 |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)   |            |         |           |                     |                        |                      |                     |          |  |  |
| 5                 | QPSK       | 1       | 0         | 17.83               | 18.00                  | 18.05                |                     |          |  |  |
| 5                 | QPSK       | 1       | 12        | 17.84               | 18.01                  | 17.76                | 19.5                | 0        |  |  |
| 5                 | QPSK       | 1       | 24        | 17.78               | 18.05                  | 18.06                |                     |          |  |  |
| 5                 | QPSK       | 12      | 0         | 17.99               | 17.99                  | 18.02                |                     |          |  |  |
| 5                 | QPSK       | 12      | 7         | 18.04               | 18.06                  | 17.81                | 19.5                | 0        |  |  |
| 5                 | QPSK       | 12      | 13        | 17.92               | 17.95                  | 17.83                |                     |          |  |  |
| 5                 | QPSK       | 25      | 0         | 18.01               | 18.03                  | 18.04                |                     |          |  |  |
| 5                 | 16QAM      | 1       | 0         | 17.82               | 18.04                  | 17.89                |                     |          |  |  |
| 5                 | 16QAM      | 1       | 12        | 17.87               | 18.07                  | 17.90                | 19.5                | 0        |  |  |
| 5                 | 16QAM      | 1       | 24        | 17.95               | 18.07                  | 18.07                |                     |          |  |  |
| 5                 | 16QAM      | 12      | 0         | 18.05               | 18.01                  | 17.87                |                     |          |  |  |
| 5                 | 16QAM      | 12      | 7         | 17.87               | 18.05                  | 17.97                | 19.5                | 0        |  |  |
| 5                 | 16QAM      | 12      | 13        | 17.94               | 18.04                  | 18.03                |                     |          |  |  |
| 5                 | 16QAM      | 25      | 0         | 18.08               | 17.99                  | 17.82                |                     |          |  |  |
| 5                 | 64QAM      | 1       | 0         | 17.78               | 18.10                  | 18.01                |                     |          |  |  |
| 5                 | 64QAM      | 1       | 12        | 17.90               | 18.04                  | 18.05                | 19.5                | 0        |  |  |
| 5                 | 64QAM      | 1       | 24        | 17.93               | 18.04                  | 17.80                |                     |          |  |  |
| 5                 | 64QAM      | 12      | 0         | 17.88               | 17.98                  | 17.96                |                     |          |  |  |
| 5                 | 64QAM      | 12      | 7         | 18.02               | 18.11                  | 17.93                | 19.5                | 0        |  |  |
| 5                 | 64QAM      | 12      | 13        | 18.02               | 17.94                  | 17.90                |                     |          |  |  |
| 5                 | 64QAM      | 25      | 0         | 17.85               | 18.07                  | 17.93                |                     |          |  |  |
| Channel           |            |         |           |                     |                        |                      |                     |          |  |  |
| 18915 18900 19165 |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)   |            |         |           |                     |                        |                      |                     |          |  |  |
| 3                 | QPSK       | 1       | 0         | 17.92               | 18.08                  | 18.03                |                     |          |  |  |
| 3                 | QPSK       | 1       | 8         | 17.95               | 18.07                  | 17.76                | 19.5                | 0        |  |  |
| 3                 | QPSK       | 1       | 14        | 17.77               | 18.06                  | 18.01                |                     |          |  |  |
| 3                 | QPSK       | 8       | 0         | 17.83               | 17.97                  | 17.99                |                     |          |  |  |
| 3                 | QPSK       | 8       | 4         | 17.99               | 18.02                  | 17.78                | 19.5                | 0        |  |  |
| 3                 | QPSK       | 8       | 7         | 17.91               | 17.96                  | 17.85                |                     |          |  |  |
| 3                 | QPSK       | 15      | 0         | 17.99               | 18.03                  | 17.97                |                     |          |  |  |
| 3                 | 16QAM      | 1       | 0         | 17.83               | 18.00                  | 17.83                |                     |          |  |  |
| 3                 | 16QAM      | 1       | 8         | 17.88               | 18.04                  | 17.96                | 19.5                | 0        |  |  |
| 3                 | 16QAM      | 1       | 14        | 17.84               | 18.02                  | 18.03                |                     |          |  |  |
| 3                 | 16QAM      | 8       | 0         | 18.10               | 18.00                  | 17.80                |                     |          |  |  |
| 3                 | 16QAM      | 8       | 4         | 17.84               | 18.02                  | 17.95                | 19.5                | 0        |  |  |
| 3                 | 16QAM      | 8       | 7         | 17.89               | 18.07                  | 18.04                |                     |          |  |  |
| 3                 | 16QAM      | 15      | 0         | 18.04               | 18.01                  | 17.88                |                     |          |  |  |
| 3                 | 64QAM      | 1       | 0         | 17.83               | 18.05                  | 18.01                |                     |          |  |  |
| 3                 | 64QAM      | 1       | 8         | 17.85               | 17.97                  | 17.98                | 19.5                | 0        |  |  |
| 3                 | 64QAM      | 1       | 14        | 18.00               | 18.01                  | 17.86                |                     |          |  |  |
| 3                 | 64QAM      | 8       | 0         | 17.77               | 18.05                  | 17.91                |                     |          |  |  |
| 3                 | 64QAM      | 8       | 4         | 18.00               | 18.08                  | 17.98                | 19.5                | 0        |  |  |
| 3                 | 64QAM      | 8       | 7         | 17.93               | 17.89                  | 17.82                |                     |          |  |  |
| 3                 | 64QAM      | 15      | 0         | 17.83               | 18.09                  | 17.91                |                     |          |  |  |
| Channel           |            |         |           |                     |                        |                      |                     |          |  |  |
| 18607 18900 19193 |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)   |            |         |           |                     |                        |                      |                     |          |  |  |
| 1.4               | QPSK       | 1       | 0         | 17.83               | 18.06                  | 18.10                |                     |          |  |  |
| 1.4               | QPSK       | 1       | 3         | 17.87               | 18.04                  | 17.78                | 19.5                | 0        |  |  |
| 1.4               | QPSK       | 1       | 5         | 17.85               | 18.08                  | 18.07                |                     |          |  |  |
| 1.4               | QPSK       | 3       | 0         | 17.86               | 18.04                  | 17.93                |                     |          |  |  |
| 1.4               | QPSK       | 3       | 1         | 17.84               | 18.00                  | 17.82                |                     |          |  |  |
| 1.4               | QPSK       | 3       | 3         | 17.81               | 18.05                  | 17.99                | 19.5                | 0        |  |  |
| 1.4               | QPSK       | 6       | 0         | 17.85               | 17.98                  | 17.93                |                     |          |  |  |
| 1.4               | 16QAM      | 1       | 0         | 17.80               | 18.01                  | 17.96                |                     |          |  |  |
| 1.4               | 16QAM      | 1       | 3         | 17.83               | 18.02                  | 17.85                | 19.5                | 0        |  |  |
| 1.4               | 16QAM      | 1       | 5         | 17.96               | 18.06                  | 18.10                |                     |          |  |  |
| 1.4               | 16QAM      | 3       | 0         | 18.02               | 17.86                  | 17.88                |                     |          |  |  |
| 1.4               | 16QAM      | 3       | 1         | 17.79               | 17.97                  | 17.98                | 19.5                | 0        |  |  |
| 1.4               | 16QAM      | 3       | 3         | 18.00               | 18.04                  | 17.97                |                     |          |  |  |
| 1.4               | 16QAM      | 6       | 0         | 17.85               | 17.99                  | 17.99                |                     |          |  |  |
| 1.4               | 64QAM      | 1       | 0         | 17.76               | 18.05                  | 18.07                |                     |          |  |  |
| 1.4               | 64QAM      | 1       | 3         | 17.95               | 18.05                  | 17.98                | 19.5                | 0        |  |  |
| 1.4               | 64QAM      | 1       | 5         | 18.00               | 17.94                  | 17.88                |                     |          |  |  |
| 1.4               | 64QAM      | 3       | 0         | 17.76               | 18.04                  | 17.90                |                     |          |  |  |
| 1.4               | 64QAM      | 3       | 1         | 17.87               | 18.15                  | 18.                  |                     |          |  |  |



| Band 13 Ant4 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 23259         |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz) 782   |            |         |           |                       |                          |                        |                     |          |  |  |
| 10                    | QPSK       | 1       | 0         | 24.24                 | 24.10                    | 24.14                  |                     |          |  |  |
| 10                    | QPSK       | 1       | 25        | 24.05                 | 24.05                    | 24.05                  | 25.5                | 0        |  |  |
| 10                    | QPSK       | 1       | 49        | 24.23                 | 24.23                    | 24.23                  |                     |          |  |  |
| 10                    | QPSK       | 25      | 0         | 23.17                 | 23.17                    | 23.17                  | 24.5                | 1        |  |  |
| 10                    | QPSK       | 25      | 12        | 22.96                 | 22.96                    | 22.96                  |                     |          |  |  |
| 10                    | QPSK       | 25      | 25        | 22.99                 | 22.99                    | 22.99                  |                     |          |  |  |
| 10                    | QPSK       | 50      | 0         | 23.06                 | 23.06                    | 23.06                  |                     |          |  |  |
| 10                    | 16QAM      | 1       | 0         | 23.18                 | 23.18                    | 23.18                  | 24.5                | 1        |  |  |
| 10                    | 16QAM      | 1       | 25        | 23.07                 | 23.07                    | 23.07                  |                     |          |  |  |
| 10                    | 16QAM      | 1       | 49        | 23.04                 | 23.04                    | 23.04                  |                     |          |  |  |
| 10                    | 16QAM      | 25      | 0         | 22.06                 | 22.06                    | 22.06                  | 23.5                | 2        |  |  |
| 10                    | 16QAM      | 25      | 12        | 22.07                 | 22.07                    | 22.07                  |                     |          |  |  |
| 10                    | 16QAM      | 25      | 25        | 22.18                 | 22.18                    | 22.18                  |                     |          |  |  |
| 10                    | 16QAM      | 50      | 0         | 22.11                 | 22.11                    | 22.11                  |                     |          |  |  |
| 10                    | 16QAM      | 1       | 0         | 22.34                 | 22.34                    | 22.34                  | 23.5                | 2        |  |  |
| 10                    | 16QAM      | 1       | 25        | 22.45                 | 22.45                    | 22.45                  |                     |          |  |  |
| 10                    | 16QAM      | 1       | 49        | 22.43                 | 22.43                    | 22.43                  |                     |          |  |  |
| 10                    | 16QAM      | 25      | 0         | 21.32                 | 21.32                    | 21.32                  | 22.5                | 3        |  |  |
| 10                    | 16QAM      | 25      | 12        | 21.23                 | 21.23                    | 21.23                  |                     |          |  |  |
| 10                    | 16QAM      | 25      | 25        | 21.43                 | 21.43                    | 21.43                  |                     |          |  |  |
| 10                    | 16QAM      | 50      | 0         | 21.28                 | 21.28                    | 21.28                  |                     |          |  |  |
| Channel 23205         |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz) 779.5 |            |         |           |                       |                          |                        |                     |          |  |  |
| 5                     | QPSK       | 1       | 0         | 24.05                 | 24.10                    | 24.14                  |                     |          |  |  |
| 5                     | QPSK       | 1       | 12        | 23.89                 | 24.01                    | 23.96                  | 25.5                | 0        |  |  |
| 5                     | QPSK       | 1       | 24        | 24.06                 | 24.11                    | 24.11                  |                     |          |  |  |
| 5                     | QPSK       | 12      | 0         | 23.14                 | 22.98                    | 22.98                  | 24.5                | 1        |  |  |
| 5                     | QPSK       | 12      | 7         | 22.87                 | 22.86                    | 22.85                  |                     |          |  |  |
| 5                     | QPSK       | 12      | 13        | 22.85                 | 22.92                    | 22.88                  |                     |          |  |  |
| 5                     | QPSK       | 25      | 0         | 22.99                 | 23.00                    | 22.99                  |                     |          |  |  |
| 5                     | 16QAM      | 1       | 0         | 23.04                 | 23.04                    | 22.99                  | 24.5                | 1        |  |  |
| 5                     | 16QAM      | 1       | 12        | 22.93                 | 23.03                    | 22.85                  |                     |          |  |  |
| 5                     | 16QAM      | 1       | 24        | 22.83                 | 22.84                    | 22.99                  |                     |          |  |  |
| 5                     | 16QAM      | 12      | 0         | 21.99                 | 21.91                    | 21.85                  | 23.5                | 2        |  |  |
| 5                     | 16QAM      | 12      | 7         | 21.97                 | 21.97                    | 21.89                  |                     |          |  |  |
| 5                     | 16QAM      | 12      | 13        | 22.02                 | 21.99                    | 22.07                  |                     |          |  |  |
| 5                     | 16QAM      | 25      | 0         | 21.96                 | 22.02                    | 21.92                  |                     |          |  |  |
| 5                     | 16QAM      | 1       | 0         | 22.16                 | 22.24                    | 22.15                  | 23.5                | 2        |  |  |
| 5                     | 16QAM      | 1       | 12        | 22.30                 | 22.40                    | 22.23                  |                     |          |  |  |
| 5                     | 16QAM      | 1       | 24        | 22.38                 | 22.29                    | 22.23                  |                     |          |  |  |
| 5                     | 16QAM      | 12      | 0         | 21.16                 | 21.11                    | 21.12                  | 22.5                | 3        |  |  |
| 5                     | 16QAM      | 12      | 7         | 21.10                 | 21.17                    | 21.03                  |                     |          |  |  |
| 5                     | 16QAM      | 12      | 13        | 21.25                 | 21.21                    | 21.23                  |                     |          |  |  |
| 5                     | 16QAM      | 25      | 0         | 21.08                 | 21.19                    | 21.08                  |                     |          |  |  |

| Band 26 Ant4 DS11     |            |         |           |                       |                          |                        |                     |          |  |  |
|-----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW (MHz)              | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel 26765         |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz) 821.5 |            |         |           |                       |                          |                        |                     |          |  |  |
| 15                    | QPSK       | 1       | 0         | 21.81                 | 22.11                    | 21.93                  | 23.5                | 0        |  |  |
| 15                    | QPSK       | 1       | 37        | 21.83                 | 22.05                    | 21.88                  |                     |          |  |  |
| 15                    | QPSK       | 1       | 74        | 21.84                 | 22.02                    | 21.88                  |                     |          |  |  |
| 15                    | QPSK       | 36      | 0         | 21.87                 | 22.09                    | 21.91                  | 23.5                | 0        |  |  |
| 15                    | QPSK       | 36      | 20        | 21.86                 | 22.08                    | 21.87                  |                     |          |  |  |
| 15                    | QPSK       | 36      | 39        | 21.88                 | 22.03                    | 21.93                  |                     |          |  |  |
| 15                    | QPSK       | 75      | 0         | 21.82                 | 22.09                    | 21.91                  |                     |          |  |  |
| 15                    | 16QAM      | 1       | 0         | 21.88                 | 22.05                    | 21.93                  | 23.5                | 0        |  |  |
| 15                    | 16QAM      | 1       | 37        | 21.81                 | 22.05                    | 21.91                  |                     |          |  |  |
| 15                    | 16QAM      | 1       | 74        | 21.85                 | 22.10                    | 21.89                  |                     |          |  |  |
| 15                    | 16QAM      | 36      | 0         | 21.82                 | 22.07                    | 21.88                  | 23.5                | 0        |  |  |
| 15                    | 16QAM      | 36      | 20        | 21.81                 | 22.04                    | 21.90                  |                     |          |  |  |
| 15                    | 16QAM      | 36      | 39        | 21.85                 | 22.01                    | 21.88                  |                     |          |  |  |
| 15                    | 16QAM      | 75      | 0         | 21.87                 | 22.07                    | 21.93                  |                     |          |  |  |
| 15                    | 16QAM      | 1       | 0         | 21.77                 | 22.00                    | 21.92                  | 23.5                | 0        |  |  |
| 15                    | 16QAM      | 1       | 37        | 21.84                 | 22.05                    | 21.92                  |                     |          |  |  |
| 15                    | 16QAM      | 1       | 74        | 21.86                 | 22.06                    | 21.92                  |                     |          |  |  |
| 15                    | 16QAM      | 36      | 0         | 21.82                 | 22.07                    | 21.88                  | 22.5                | 1        |  |  |
| 15                    | 16QAM      | 36      | 20        | 21.81                 | 22.04                    | 21.92                  |                     |          |  |  |
| 15                    | 16QAM      | 36      | 39        | 21.87                 | 21.97                    | 21.92                  |                     |          |  |  |
| 15                    | 16QAM      | 75      | 0         | 21.82                 | 21.90                    | 21.93                  |                     |          |  |  |
| Channel 26740         |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz) 819   |            |         |           |                       |                          |                        |                     |          |  |  |
| 10                    | QPSK       | 1       | 0         | 21.73                 | 21.99                    | 21.80                  | 23.5                | 0        |  |  |
| 10                    | QPSK       | 1       | 25        | 21.76                 | 21.92                    | 21.80                  |                     |          |  |  |
| 10                    | QPSK       | 1       | 49        | 21.70                 | 21.93                    | 21.75                  |                     |          |  |  |
| 10                    | QPSK       | 25      | 0         | 21.77                 | 21.98                    | 21.79                  | 23.5                | 0        |  |  |
| 10                    | QPSK       | 25      | 12        | 21.80                 | 21.98                    | 21.83                  |                     |          |  |  |
| 10                    | QPSK       | 25      | 25        | 21.79                 | 21.88                    | 21.85                  |                     |          |  |  |
| 10                    | QPSK       | 50      | 0         | 21.73                 | 22.01                    | 21.79                  |                     |          |  |  |
| 10                    | 16QAM      | 1       | 0         | 21.76                 | 21.95                    | 21.78                  | 23.5                | 0        |  |  |
| 10                    | 16QAM      | 1       | 25        | 21.76                 | 21.94                    | 21.85                  |                     |          |  |  |
| 10                    | 16QAM      | 1       | 49        | 21.70                 | 21.94                    | 21.76                  |                     |          |  |  |
| 10                    | 16QAM      | 25      | 0         | 21.76                 | 22.02                    | 21.78                  | 23.5                | 0        |  |  |
| 10                    | 16QAM      | 25      | 12        | 21.73                 | 21.96                    | 21.82                  |                     |          |  |  |
| 10                    | 16QAM      | 25      | 25        | 21.70                 | 21.94                    | 21.81                  |                     |          |  |  |
| 10                    | 16QAM      | 50      | 0         | 21.78                 | 21.96                    | 21.83                  |                     |          |  |  |
| 10                    | 16QAM      | 1       | 0         | 21.75                 | 21.91                    | 21.88                  | 23.5                | 0        |  |  |
| 10                    | 16QAM      | 1       | 25        | 21.73                 | 21.92                    | 21.78                  |                     |          |  |  |
| 10                    | 16QAM      | 1       | 49        | 21.73                 | 21.98                    | 21.80                  |                     |          |  |  |
| 10                    | 16QAM      | 25      | 0         | 21.27                 | 21.27                    | 20.99                  | 22.5                | 1        |  |  |
| 10                    | 16QAM      | 25      | 12        | 21.30                 | 21.37                    | 21.27                  |                     |          |  |  |
| 10                    | 16QAM      | 25      | 25        | 21.23                 | 21.31                    | 21.20                  |                     |          |  |  |
| 10                    | 16QAM      | 50      | 0         | 21.27                 | 21.27                    | 21.17                  |                     |          |  |  |
| Channel 26715         |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz) 816.5 |            |         |           |                       |                          |                        |                     |          |  |  |
| 5                     | QPSK       | 1       | 0         | 21.76                 | 21.99                    | 21.85                  | 23.5                | 0        |  |  |
| 5                     | QPSK       | 1       | 12        | 21.73                 | 21.98                    | 21.74                  |                     |          |  |  |
| 5                     | QPSK       | 1       | 24        | 21.71                 | 21.95                    | 21.78                  |                     |          |  |  |
| 5                     | QPSK       | 12      | 0         | 21.75                 | 21.95                    | 21.78                  | 23.5                | 0        |  |  |
| 5                     | QPSK       | 12      | 7         | 21.72                 | 22.04                    | 21.78                  |                     |          |  |  |
| 5                     | QPSK       | 12      | 13        | 21.83                 | 21.92                    | 21.87                  |                     |          |  |  |
| 5                     | QPSK       | 25      | 0         | 21.75                 | 21.93                    | 21.77                  | 23.5                | 0        |  |  |
| 5                     | 16QAM      | 1       | 0         | 21.75                 | 21.91                    | 21.79                  |                     |          |  |  |
| 5                     | 16QAM      | 1       | 12        | 21.71                 | 21.95                    | 21.85                  |                     |          |  |  |
| 5                     | 16QAM      | 1       | 24        | 21.77                 | 22.01                    | 21.78                  |                     |          |  |  |
| 5                     | 16QAM      | 12      | 0         | 21.72                 | 21.93                    | 21.76                  | 23.5                | 0        |  |  |
| 5                     | 16QAM      | 12      | 7         | 21.71                 | 21.91                    | 21.80                  |                     |          |  |  |
| 5                     | 16QAM      | 12      | 13        | 21.72                 | 21.88                    | 21.78                  |                     |          |  |  |
| 5                     | 16QAM      | 25      | 0         | 21.82                 | 21.99                    | 21.80                  | 23.5                | 0        |  |  |
| 5                     | 16QAM      | 1       | 0         | 21.76                 | 21.88                    | 21.81                  |                     |          |  |  |
| 5                     | 16QAM      | 1       | 12        | 21.72                 | 21.93                    | 21.83                  |                     |          |  |  |
| 5                     | 16QAM      | 1       | 24        | 21.80                 | 22.01                    | 21.83                  |                     |          |  |  |
| 5                     | 16QAM      | 12      | 0         | 21.18                 | 21.20                    | 21.06                  | 22.5                | 1        |  |  |
| 5                     | 16QAM      | 12      | 7         | 21.27                 | 21.37                    | 21.22                  |                     |          |  |  |
| 5                     | 16QAM      | 12      | 13        | 21.25                 | 21.35                    | 21.26                  |                     |          |  |  |
| 5                     | 16QAM      | 25      | 0         | 21.27                 | 21.31                    | 21.24                  |                     |          |  |  |
| Channel 26705         |            |         |           |                       |                          |                        |                     |          |  |  |
| Frequency (MHz) 815.5 |            |         |           |                       |                          |                        |                     |          |  |  |
| 3                     | QPSK       | 1       | 0         | 21.77                 | 22.00                    | 21.84                  | 23.5                | 0        |  |  |
| 3                     | QPSK       | 1       | 8         | 21.77                 | 21.94                    | 21.82                  |                     |          |  |  |
| 3                     | QPSK       | 1       | 14        | 21.78                 | 21.91                    | 21.78                  |                     |          |  |  |
| 3                     | QPSK       | 8       | 0         | 21.73                 | 21.96                    | 21.80                  | 23.5                | 0        |  |  |
| 3                     | QPSK       | 8       | 4         | 21.80                 | 22.04                    | 21.75                  |                     |          |  |  |
| 3                     | QPSK       | 8       | 7         | 21.73                 | 21.88                    | 21.86                  |                     |          |  |  |
| 3                     | QPSK       | 15      | 0         | 21.76                 | 21.95                    | 21.86                  |                     |          |  |  |
| 3                     | 16QAM      | 1       | 0         | 21.76                 | 21.97                    | 21.89                  | 23.5                | 0        |  |  |
| 3                     | 16QAM      | 1       | 8         | 21.72                 | 21.99                    | 21.86                  |                     |          |  |  |
| 3                     | 16QAM      | 1       | 14        | 21.80                 | 22.05                    | 21.75                  |                     |          |  |  |
| 3                     | 16QAM      | 8       | 0         | 21.77                 | 21.99                    | 21.75                  | 23.5                | 0        |  |  |
| 3                     | 16QAM      | 8       | 4         | 21.76                 | 21.94                    | 21.80                  |                     |          |  |  |
| 3                     | 16QAM      | 8       | 7         | 21.71                 | 21.89                    | 21.81                  |                     |          |  |  |
| 3                     | 16QAM      | 15      | 0         | 21.72                 | 22.00                    | 21.88                  | 23.5                | 0        |  |  |
| 3                     | 16QAM      | 1       | 0         | 21.76                 | 21.93                    | 21.85                  |                     |          |  |  |
| 3                     | 16QAM      | 1       | 8         | 21.79                 | 21.98                    | 21.83                  |                     |          |  |  |
| 3                     | 16QAM      | 1       | 14        | 21.81                 | 21.96                    | 21.81                  |                     |          |  |  |
| 3                     | 16QAM      | 8       | 0         | 21.28                 | 21.32                    | 21.10                  | 22.5                | 1        |  |  |
| 3                     | 1          |         |           |                       |                          |                        |                     |          |  |  |

| Band 38 Ant4 DS1I |            |         |           |                       |                          |                        |              |          |  |  |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|--------------|----------|--|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up [dB] | MPR [dB] |  |  |  |
| Channel           |            |         |           | 37850                 | 38000                    | 38150                  |              |          |  |  |  |
| Frequency (MHz)   |            |         |           | 2580                  | 2595                     | 2610                   |              |          |  |  |  |
| 20                | QPSK       | 1       | 0         | 20.03                 | 20.23                    | 20.14                  |              |          |  |  |  |
| 20                | QPSK       | 1       | 49        | 19.89                 | 20.08                    | 20.02                  | 21.5         | 0        |  |  |  |
| 20                | QPSK       | 1       | 99        | 19.87                 | 20.13                    | 20.04                  |              |          |  |  |  |
| 20                | QPSK       | 50      | 0         | 19.92                 | 20.21                    | 20.05                  |              |          |  |  |  |
| 20                | QPSK       | 50      | 24        | 19.97                 | 20.19                    | 20.00                  | 21.5         | 0        |  |  |  |
| 20                | QPSK       | 50      | 50        | 19.91                 | 20.18                    | 19.99                  |              |          |  |  |  |
| 20                | QPSK       | 100     | 0         | 19.92                 | 20.17                    | 20.03                  |              |          |  |  |  |
| 20                | 16QAM      | 1       | 0         | 19.93                 | 20.06                    | 20.01                  |              |          |  |  |  |
| 20                | 16QAM      | 1       | 49        | 19.95                 | 19.91                    | 19.99                  | 21.5         | 0        |  |  |  |
| 20                | 16QAM      | 1       | 99        | 20.00                 | 19.91                    | 19.97                  |              |          |  |  |  |
| 20                | 16QAM      | 50      | 0         | 20.00                 | 19.98                    | 19.94                  |              |          |  |  |  |
| 20                | 16QAM      | 50      | 24        | 19.93                 | 19.94                    | 19.96                  | 21.5         | 0        |  |  |  |
| 20                | 16QAM      | 50      | 50        | 19.93                 | 19.92                    | 19.90                  |              |          |  |  |  |
| 20                | 16QAM      | 100     | 0         | 19.96                 | 19.94                    | 19.96                  |              |          |  |  |  |
| 20                | 64QAM      | 1       | 0         | 19.84                 | 20.00                    | 19.94                  |              |          |  |  |  |
| 20                | 64QAM      | 1       | 49        | 19.90                 | 19.86                    | 19.87                  | 21.5         | 0        |  |  |  |
| 20                | 64QAM      | 1       | 99        | 19.87                 | 19.88                    | 19.90                  |              |          |  |  |  |
| 20                | 64QAM      | 50      | 0         | 19.89                 | 19.87                    | 19.86                  |              |          |  |  |  |
| 20                | 64QAM      | 50      | 24        | 19.95                 | 19.94                    | 19.84                  | 21.5         | 0        |  |  |  |
| 20                | 64QAM      | 50      | 50        | 19.92                 | 19.91                    | 19.85                  |              |          |  |  |  |
| 20                | 64QAM      | 100     | 0         | 19.89                 | 19.84                    | 19.90                  |              |          |  |  |  |
| Channel           |            |         |           | 37825                 | 38000                    | 38175                  |              |          |  |  |  |
| Frequency (MHz)   |            |         |           | 2577.5                | 2595                     | 2612.5                 |              |          |  |  |  |
| 15                | QPSK       | 1       | 0         | 19.96                 | 20.12                    | 20.01                  |              |          |  |  |  |
| 15                | QPSK       | 1       | 37        | 19.84                 | 19.92                    | 19.90                  | 21.5         | 0        |  |  |  |
| 15                | QPSK       | 1       | 74        | 19.82                 | 20.05                    | 19.96                  |              |          |  |  |  |
| 15                | QPSK       | 36      | 0         | 19.76                 | 20.13                    | 19.89                  |              |          |  |  |  |
| 15                | QPSK       | 36      | 20        | 19.82                 | 20.12                    | 19.91                  | 21.5         | 0        |  |  |  |
| 15                | QPSK       | 36      | 39        | 19.82                 | 20.03                    | 19.85                  |              |          |  |  |  |
| 15                | QPSK       | 75      | 0         | 19.86                 | 20.04                    | 19.86                  |              |          |  |  |  |
| 15                | 16QAM      | 1       | 0         | 19.84                 | 19.95                    | 19.86                  |              |          |  |  |  |
| 15                | 16QAM      | 1       | 37        | 19.81                 | 19.77                    | 19.92                  | 21.5         | 0        |  |  |  |
| 15                | 16QAM      | 1       | 74        | 19.84                 | 19.83                    | 19.83                  |              |          |  |  |  |
| 15                | 16QAM      | 36      | 0         | 19.86                 | 19.88                    | 19.83                  |              |          |  |  |  |
| 15                | 16QAM      | 36      | 20        | 19.76                 | 19.86                    | 19.86                  | 21.5         | 0        |  |  |  |
| 15                | 16QAM      | 36      | 39        | 19.79                 | 19.86                    | 19.75                  |              |          |  |  |  |
| 15                | 16QAM      | 75      | 0         | 19.80                 | 19.82                    | 19.85                  |              |          |  |  |  |
| 15                | 64QAM      | 1       | 0         | 19.76                 | 19.94                    | 19.89                  |              |          |  |  |  |
| 15                | 64QAM      | 1       | 37        | 19.81                 | 19.81                    | 19.74                  | 21.5         | 0        |  |  |  |
| 15                | 64QAM      | 1       | 74        | 19.71                 | 19.72                    | 19.81                  |              |          |  |  |  |
| 15                | 64QAM      | 36      | 0         | 19.81                 | 19.71                    | 19.78                  |              |          |  |  |  |
| 15                | 64QAM      | 36      | 39        | 19.87                 | 19.86                    | 19.82                  | 21.5         | 0        |  |  |  |
| 15                | 64QAM      | 36      | 39        | 19.82                 | 19.77                    | 19.77                  |              |          |  |  |  |
| 15                | 64QAM      | 75      | 0         | 19.84                 | 19.71                    | 19.75                  |              |          |  |  |  |
| Channel           |            |         |           | 37800                 | 38000                    | 38200                  |              |          |  |  |  |
| Frequency (MHz)   |            |         |           | 2575                  | 2595                     | 2615                   |              |          |  |  |  |
| 10                | QPSK       | 1       | 0         | 19.99                 | 20.07                    | 20.00                  |              |          |  |  |  |
| 10                | QPSK       | 1       | 25        | 19.80                 | 19.88                    | 19.86                  | 21.5         | 0        |  |  |  |
| 10                | QPSK       | 1       | 49        | 19.80                 | 20.08                    | 19.96                  |              |          |  |  |  |
| 10                | QPSK       | 25      | 0         | 19.87                 | 20.14                    | 19.91                  |              |          |  |  |  |
| 10                | QPSK       | 25      | 12        | 19.88                 | 20.08                    | 19.93                  | 21.5         | 0        |  |  |  |
| 10                | QPSK       | 25      | 25        | 19.78                 | 20.06                    | 19.95                  |              |          |  |  |  |
| 10                | QPSK       | 50      | 0         | 19.85                 | 20.10                    | 19.90                  |              |          |  |  |  |
| 10                | 16QAM      | 1       | 0         | 19.77                 | 19.93                    | 19.95                  |              |          |  |  |  |
| 10                | 16QAM      | 1       | 25        | 19.83                 | 19.81                    | 19.84                  | 21.5         | 0        |  |  |  |
| 10                | 16QAM      | 1       | 49        | 19.89                 | 19.76                    | 19.93                  |              |          |  |  |  |
| 10                | 16QAM      | 25      | 0         | 19.87                 | 19.88                    | 19.82                  |              |          |  |  |  |
| 10                | 16QAM      | 25      | 12        | 19.78                 | 19.87                    | 19.78                  | 21.5         | 0        |  |  |  |
| 10                | 16QAM      | 25      | 25        | 19.81                 | 19.76                    | 19.77                  |              |          |  |  |  |
| 10                | 16QAM      | 50      | 0         | 19.83                 | 19.81                    | 19.84                  |              |          |  |  |  |
| 10                | 64QAM      | 1       | 0         | 19.79                 | 19.87                    | 19.83                  |              |          |  |  |  |
| 10                | 64QAM      | 1       | 25        | 19.83                 | 19.78                    | 19.76                  | 21.5         | 0        |  |  |  |
| 10                | 64QAM      | 1       | 49        | 19.72                 | 19.81                    | 19.74                  |              |          |  |  |  |
| 10                | 64QAM      | 25      | 0         | 19.84                 | 19.74                    | 19.76                  |              |          |  |  |  |
| 10                | 64QAM      | 25      | 12        | 19.83                 | 19.74                    | 19.76                  | 21.5         | 0        |  |  |  |
| 10                | 64QAM      | 25      | 25        | 19.89                 | 19.82                    | 19.77                  |              |          |  |  |  |
| 10                | 64QAM      | 25      | 25        | 19.70                 | 19.78                    | 19.76                  | 21.5         | 0        |  |  |  |
| 10                | 64QAM      | 50      | 0         | 19.75                 | 19.72                    | 19.74                  |              |          |  |  |  |
| Channel           |            |         |           | 37775                 | 38000                    | 38225                  |              |          |  |  |  |
| Frequency (MHz)   |            |         |           | 2572.5                | 2595                     | 2617.5                 |              |          |  |  |  |
| 5                 | QPSK       | 1       | 0         | 19.92                 | 20.16                    | 20.05                  |              |          |  |  |  |
| 5                 | QPSK       | 1       | 12        | 19.74                 | 20.02                    | 19.86                  | 21.5         | 0        |  |  |  |
| 5                 | QPSK       | 1       | 24        | 19.77                 | 20.08                    | 19.94                  |              |          |  |  |  |
| 5                 | QPSK       | 12      | 0         | 19.85                 | 20.16                    | 19.94                  |              |          |  |  |  |
| 5                 | QPSK       | 12      | 7         | 19.91                 | 20.04                    | 19.86                  | 21.5         | 0        |  |  |  |
| 5                 | QPSK       | 12      | 13        | 19.81                 | 20.07                    | 19.85                  |              |          |  |  |  |
| 5                 | QPSK       | 25      | 0         | 19.86                 | 20.12                    | 19.96                  |              |          |  |  |  |
| 5                 | 16QAM      | 1       | 0         | 19.78                 | 19.99                    | 19.96                  |              |          |  |  |  |
| 5                 | 16QAM      | 1       | 12        | 19.82                 | 19.79                    | 19.91                  | 21.5         | 0        |  |  |  |
| 5                 | 16QAM      | 1       | 24        | 19.84                 | 19.75                    | 19.82                  |              |          |  |  |  |
| 5                 | 16QAM      | 12      | 0         | 19.87                 | 19.86                    | 19.86                  |              |          |  |  |  |
| 5                 | 16QAM      | 12      | 7         | 19.79                 | 19.79                    | 19.85                  | 21.5         | 0        |  |  |  |
| 5                 | 16QAM      | 12      | 13        | 19.88                 | 19.82                    | 19.80                  |              |          |  |  |  |
| 5                 | 16QAM      | 25      | 0         | 19.89                 | 19.78                    | 19.80                  |              |          |  |  |  |
| 5                 | 64QAM      | 1       | 0         | 19.76                 | 19.88                    | 19.87                  |              |          |  |  |  |
| 5                 | 64QAM      | 1       | 12        | 19.83                 | 19.76                    | 19.75                  | 21.5         | 0        |  |  |  |
| 5                 | 64QAM      | 1       | 24        | 19.78                 | 19.76                    | 19.83                  |              |          |  |  |  |
| 5                 | 64QAM      | 12      | 0         | 19.77                 | 19.80                    | 19.79                  |              |          |  |  |  |
| 5                 | 64QAM      | 12      | 7         | 19.75                 | 19.76                    | 19.73                  | 21.5         | 0        |  |  |  |
| 5                 | 64QAM      | 12      | 13        | 19.81                 | 19.84                    | 19.73                  |              |          |  |  |  |
| 5                 | 64QAM      | 25      | 0         | 19.77                 | 19.75                    | 19.75                  |              |          |  |  |  |

| Band 41 Ant4 DS1I |            |         |           |                       |                          |                        |              |          |      |   |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|--------------|----------|------|---|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up [dB] | MPR [dB] |      |   |  |
| Channel           |            |         |           | 39750                 | 40185                    | 40620                  |              |          |      |   |  |
| Frequency (MHz)   |            |         |           | 2506                  | 2548.5                   | 2593                   | 2636.5       | 2681.0   |      |   |  |
| 20                | QPSK       | 1       | 0         | 19.99                 | 20.24                    | 20.36                  | 20.18        | 20.14    |      |   |  |
| 20                | QPSK       | 1       | 49        | 19.92                 | 20.20                    | 20.30                  | 20.05        | 20.08    | 21.5 | 0 |  |
| 20                | QPSK       | 1       | 99        | 19.89                 | 20.13                    | 20.21                  | 20.12        | 20.03    |      |   |  |
| 20                | QPSK       | 50      | 0         | 20.01                 | 20.16                    | 20.35                  | 20.03        | 20.32    |      |   |  |
| 20                | QPSK       | 50      | 24        | 20.01                 | 20.18                    | 20.25                  | 20.08        | 20.04    | 21.5 | 0 |  |
| 20                | QPSK       | 50      | 50        | 20.03                 | 20.09                    | 20.28                  | 20.11        | 20.00    |      |   |  |
| 20                | QPSK       | 100     | 0         | 20.25                 | 20.19                    | 20.31                  | 20.02        | 20.06    |      |   |  |
| 20                | 16QAM      | 1       | 0         | 19.98                 | 19.92                    | 20.00                  | 19.89        | 19.92    |      |   |  |
| 20                | 16QAM      | 1       | 49        | 19.94                 | 19.93                    | 19.93                  | 19.92        | 19.89    | 21.5 | 0 |  |
| 20                | 16QAM      | 1       | 99        | 19.95                 | 19.90                    | 19.98                  | 19.94        | 19.96    |      |   |  |
| 20                | 16QAM      | 50      | 0         | 19.93                 | 20.00                    | 20.00                  | 19.90        | 19.93    |      |   |  |
| 20                | 16QAM      | 50      | 24        | 19.98                 | 19.92                    | 19.92                  | 19.96        | 19.96    | 21.5 | 0 |  |
| 20                | 16QAM      | 50      | 50        | 19.90                 | 19.98                    | 19.92                  | 19.98        | 19.98    |      |   |  |
| 20                | 16QAM      | 100     | 0         | 19.91                 | 19.93                    | 19.98                  | 19.92        | 19.90    |      |   |  |
| 20                | 64QAM      | 1       | 0         | 19.83                 | 19.86                    | 19.87                  | 19.84        | 19.82    |      |   |  |
| 20                | 64QAM      | 1       | 49        | 19.81                 | 19.87                    | 19.82                  | 19.90        | 19.81    | 21.5 | 0 |  |
| 20                | 64QAM      | 1       | 99        | 19.91                 | 19.83                    | 19.88                  | 19.92        | 19.81    |      |   |  |
| 20                | 64QAM      | 50      | 0         | 19.92                 | 19.88                    | 19.82                  | 19.90        | 19.89    |      |   |  |
| 20                | 64QAM      | 50      | 24        | 19.82                 | 19.85                    | 19.89                  | 19.88        | 19.84    | 21.5 | 0 |  |
| 20                | 64QAM      | 50      | 50        | 19.81                 | 19.81                    | 19.84                  | 19.84        | 19.84    |      |   |  |
| 20                | 64QAM      | 100     | 0         | 19.82                 | 19.88                    | 19.84                  | 19.84        | 19.81    |      |   |  |
| Channel           |            |         |           | 39725                 | 40173                    | 40620                  | 41068        | 41515    |      |   |  |
| Frequency (MHz)   |            |         |           | 2503.5                | 2548.3                   | 2593                   | 2637.8       | 2682.5   |      |   |  |
| 15                | QPSK       | 1       | 0         | 19.83                 | 20.27                    | 20.10                  | 20.03        | 20.09    |      |   |  |
| 15                | QPSK       | 1       | 37        | 19.80                 | 20.16                    | 20.15                  | 19.92        | 19.95    | 22   | 0 |  |
| 15                | QPSK       | 1       | 74        | 19.92                 | 20.08                    | 20.00                  | 20.00        | 19.98    |      |   |  |
| 15                | QPSK       | 36      | 0         | 19.88                 | 20.21                    | 20.11                  | 19.92        | 19.92    |      |   |  |
| 15                | QPSK       | 36      | 20        | 19.91                 | 20.20                    | 20.10                  | 19.94        | 19.97    | 21.5 | 0 |  |
| 15                | QPSK       | 36      | 39        | 19.90                 | 20.19                    | 19.98                  | 19.96        | 19.85    |      |   |  |
| 15                | QPSK       | 75      | 0         | 2                     |                          |                        |              |          |      |   |  |

Reduced Power Mode for DS13

| GSM850 Ant1 DS13     |                           |       |       |                           |                           |       |       |
|----------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|
| GSM850<br>TX Channel | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       |
|                      | 195                       | 199   | 201   |                           | 195                       | 199   | 201   |
| Frequency (MHz)      | 824.2                     | 830.4 | 836.6 | 824.2                     | 830.4                     | 836.6 |       |
| GSM 1 Tx slot        | 28.05                     | 27.88 | 27.84 | 29.00                     | 19.05                     | 18.88 | 18.84 |
| GPRS 1 Tx slot       | 28.10                     | 27.91 | 27.89 | 29.00                     | 19.10                     | 18.91 | 18.89 |
| GPRS 2 Tx slots      | 25.15                     | 25.19 | 25.18 | 26.00                     | 19.15                     | 19.19 | 19.18 |
| GPRS 3 Tx slots      | 22.40                     | 22.82 | 22.54 | 24.00                     | 18.14                     | 18.39 | 18.28 |
| GPRS 4 Tx slots      | 21.40                     | 21.52 | 21.56 | 23.00                     | 18.49                     | 18.52 | 18.58 |
| EDGE 1 Tx slot       | 21.92                     | 22.04 | 21.92 | 23.50                     | 12.92                     | 13.04 | 12.92 |
| EDGE 2 Tx slots      | 19.47                     | 19.85 | 19.58 | 20.50                     | 13.47                     | 13.85 | 13.59 |
| EDGE 3 Tx slots      | 17.99                     | 17.79 | 17.86 | 18.50                     | 13.73                     | 13.53 | 13.62 |
| EDGE 4 Tx slots      | 16.19                     | 16.14 | 16.15 | 17.50                     | 13.19                     | 13.14 | 13.15 |

  

| GSM1900 Ant1 DS13     |                           |       |        |                           |                           |        |       |
|-----------------------|---------------------------|-------|--------|---------------------------|---------------------------|--------|-------|
| GSM1900<br>TX Channel | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |        |       |
|                       | 512                       | 661   | 810    |                           | 512                       | 661    | 810   |
| Frequency (MHz)       | 1500.2                    | 1630  | 1800.8 | 1500.2                    | 1630                      | 1800.8 |       |
| GSM 1 Tx slot         | 28.05                     | 28.31 | 28.29  | 29.50                     | 19.05                     | 19.31  | 19.29 |
| GPRS 1 Tx slot        | 25.55                     | 25.97 | 25.81  | 27.00                     | 19.55                     | 19.97  | 19.81 |
| GPRS 2 Tx slots       | 23.87                     | 23.88 | 23.92  | 24.50                     | 19.41                     | 19.62  | 19.66 |
| GPRS 3 Tx slots       | 22.37                     | 22.61 | 22.66  | 23.00                     | 19.37                     | 19.61  | 19.66 |
| EDGE 1 Tx slot        | 24.82                     | 24.33 | 24.64  | 26.50                     | 15.82                     | 15.33  | 15.64 |
| EDGE 2 Tx slots       | 21.54                     | 21.21 | 21.59  | 22.00                     | 15.54                     | 15.21  | 15.59 |
| EDGE 3 Tx slots       | 19.48                     | 19.12 | 19.49  | 20.00                     | 15.20                     | 14.88  | 15.23 |
| EDGE 4 Tx slots       | 18.56                     | 18.41 | 18.45  | 19.00                     | 15.56                     | 15.41  | 15.45 |

| Band                               | WCDMA # Ant1 DS13 |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV Ant1 DS13 |        |       | WCDMA V Ant1 Ant1 |       |      |
|------------------------------------|-------------------|-------|--------|---------------------------|--------------------|--------|-------|-------------------|-------|------|
|                                    | 9262              | 9400  | 9538   |                           | 1312               | 1413   | 1513  | 4132              | 4182  | 4233 |
| Rx Channel                         | 9682              | 9800  | 9938   | 937                       | 1038               | 1138   | 4357  | 4407              | 4458  |      |
| Frequency (MHz)                    | 1852.4            | 1860  | 1907.6 | 1722.4                    | 1732.6             | 1752.6 | 826.4 | 836.4             | 846.6 |      |
| 3GPP Rel 99 AMR 12.2Kbps           | 21.17             | 21.32 | 21.25  | 22.50                     | 21.24              | 21.32  | 21.20 | 22.50             | 23.55 |      |
| 3GPP Rel 99 RMC 12.2Kbps           | 21.24             | 21.38 | 21.28  | 22.50                     | 21.42              | 21.43  | 21.38 | 22.50             | 23.56 |      |
| 3GPP Rel 6 HSDPA Subtest-1         | 20.16             | 20.26 | 20.21  | 21.50                     | 20.25              | 20.40  | 20.35 | 21.50             | 22.68 |      |
| 3GPP Rel 6 HSDPA Subtest-2         | 20.19             | 20.22 | 20.14  | 21.50                     | 20.27              | 20.30  | 20.24 | 21.50             | 22.63 |      |
| 3GPP Rel 6 HSDPA Subtest-3         | 19.67             | 19.77 | 19.72  | 21.00                     | 19.77              | 19.86  | 19.81 | 21.00             | 22.15 |      |
| 3GPP Rel 6 HSDPA Subtest-4         | 19.58             | 19.76 | 19.65  | 21.00                     | 19.72              | 19.89  | 19.75 | 21.00             | 22.21 |      |
| 3GPP Rel 8 DC-HSDPA Subtest-1      | 20.08             | 20.18 | 20.20  | 21.50                     | 20.25              | 20.28  | 20.26 | 21.50             | 22.63 |      |
| 3GPP Rel 8 DC-HSDPA Subtest-2      | 20.09             | 20.14 | 20.13  | 21.50                     | 20.20              | 20.25  | 20.28 | 21.50             | 22.54 |      |
| 3GPP Rel 8 DC-HSDPA Subtest-3      | 19.56             | 19.77 | 19.59  | 21.00                     | 19.73              | 19.79  | 19.75 | 21.00             | 22.19 |      |
| 3GPP Rel 8 DC-HSDPA Subtest-4      | 19.57             | 19.68 | 19.59  | 21.00                     | 19.72              | 19.73  | 19.74 | 21.00             | 22.14 |      |
| 3GPP Rel 6 HSUPA Subtest-1         | 20.06             | 20.10 | 20.12  | 21.50                     | 20.17              | 20.30  | 20.18 | 21.50             | 22.45 |      |
| 3GPP Rel 6 HSUPA Subtest-2         | 18.19             | 18.27 | 18.28  | 19.50                     | 18.33              | 18.42  | 18.25 | 19.50             | 20.69 |      |
| 3GPP Rel 6 HSUPA Subtest-3         | 19.32             | 19.39 | 19.29  | 20.50                     | 19.34              | 19.43  | 19.40 | 20.50             | 21.72 |      |
| 3GPP Rel 6 HSUPA Subtest-4         | 18.04             | 18.19 | 18.10  | 19.50                     | 18.14              | 18.30  | 18.27 | 19.50             | 20.69 |      |
| 3GPP Rel 6 HSUPA Subtest-5         | 20.05             | 20.11 | 20.03  | 21.50                     | 20.19              | 20.29  | 20.17 | 21.50             | 22.59 |      |
| 3GPP Rel 7 HSPA+ (16QAM) Subtest-1 | 17.66             | 17.80 | 17.69  | 19.00                     | 17.62              | 18.01  | 17.96 | 19.00             | 20.16 |      |



| Band 2 Ant1 DSI3 |            |         |           |                     |                        |                      |               |          |  |  |
|------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------|----------|--|--|
| BW (MHz)         | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Tune-up (dBm) | MPR (dB) |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 20               | QPSK       | 1       | 0         | 21.50               | 21.73                  | 21.49                |               |          |  |  |
| 20               | QPSK       | 1       | 49        | 21.50               | 21.63                  | 21.45                | 23            | 0        |  |  |
| 20               | QPSK       | 1       | 99        | 21.50               | 21.66                  | 21.42                |               |          |  |  |
| 20               | QPSK       | 50      | 0         | 21.55               | 21.72                  | 21.50                |               |          |  |  |
| 20               | QPSK       | 50      | 24        | 21.51               | 21.59                  | 21.40                | 23            | 0        |  |  |
| 20               | QPSK       | 50      | 50        | 21.52               | 21.62                  | 21.46                |               |          |  |  |
| 20               | QPSK       | 100     | 0         | 21.54               | 21.70                  | 21.46                |               |          |  |  |
| 20               | 16QAM      | 1       | 0         | 21.51               | 21.68                  | 21.45                |               |          |  |  |
| 20               | 16QAM      | 1       | 49        | 21.59               | 21.66                  | 21.43                | 23            | 0        |  |  |
| 20               | 16QAM      | 1       | 99        | 21.51               | 21.72                  | 21.43                |               |          |  |  |
| 20               | 16QAM      | 50      | 0         | 21.54               | 21.65                  | 21.50                |               |          |  |  |
| 20               | 16QAM      | 50      | 24        | 21.51               | 21.65                  | 21.41                | 23            | 0        |  |  |
| 20               | 16QAM      | 50      | 50        | 21.55               | 21.62                  | 21.46                |               |          |  |  |
| 20               | 16QAM      | 100     | 0         | 21.57               | 21.67                  | 21.46                |               |          |  |  |
| 20               | 64QAM      | 1       | 0         | 21.50               | 21.65                  | 21.45                |               |          |  |  |
| 20               | 64QAM      | 1       | 49        | 21.58               | 21.65                  | 21.44                | 23            | 0        |  |  |
| 20               | 64QAM      | 1       | 99        | 21.53               | 21.62                  | 21.42                |               |          |  |  |
| 20               | 64QAM      | 50      | 0         | 20.97               | 21.11                  | 20.98                |               |          |  |  |
| 20               | 64QAM      | 50      | 24        | 20.93               | 21.00                  | 20.91                | 22.5          | 0.5      |  |  |
| 20               | 64QAM      | 50      | 50        | 20.90               | 21.03                  | 20.89                |               |          |  |  |
| 20               | 64QAM      | 100     | 0         | 20.80               | 20.90                  | 20.84                |               |          |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 15               | QPSK       | 1       | 0         | 21.46               | 21.63                  | 21.38                |               |          |  |  |
| 15               | QPSK       | 1       | 37        | 21.34               | 21.52                  | 21.30                | 23            | 0        |  |  |
| 15               | QPSK       | 1       | 74        | 21.50               | 21.54                  | 21.34                |               |          |  |  |
| 15               | QPSK       | 36      | 0         | 21.50               | 21.60                  | 21.43                |               |          |  |  |
| 15               | QPSK       | 36      | 20        | 21.47               | 21.53                  | 21.31                | 23            | 0        |  |  |
| 15               | QPSK       | 36      | 39        | 21.42               | 21.56                  | 21.33                |               |          |  |  |
| 15               | QPSK       | 75      | 0         | 21.46               | 21.60                  | 21.31                |               |          |  |  |
| 15               | 16QAM      | 1       | 0         | 21.43               | 21.54                  | 21.34                | 23            | 0        |  |  |
| 15               | 16QAM      | 1       | 37        | 21.47               | 21.53                  | 21.32                |               |          |  |  |
| 15               | 16QAM      | 1       | 74        | 21.38               | 21.66                  | 21.30                |               |          |  |  |
| 15               | 16QAM      | 36      | 0         | 21.47               | 21.54                  | 21.39                |               |          |  |  |
| 15               | 16QAM      | 36      | 20        | 21.39               | 21.56                  | 21.26                | 23            | 0        |  |  |
| 15               | 16QAM      | 36      | 39        | 21.47               | 21.53                  | 21.31                |               |          |  |  |
| 15               | 16QAM      | 75      | 0         | 21.41               | 21.53                  | 21.36                |               |          |  |  |
| 15               | 16QAM      | 1       | 0         | 21.41               | 21.58                  | 21.32                | 23            | 0        |  |  |
| 15               | 16QAM      | 1       | 37        | 21.52               | 21.60                  | 21.32                |               |          |  |  |
| 15               | 16QAM      | 1       | 74        | 21.47               | 21.53                  | 21.36                |               |          |  |  |
| 15               | 64QAM      | 1       | 0         | 20.86               | 21.02                  | 20.85                |               |          |  |  |
| 15               | 64QAM      | 36      | 20        | 20.77               | 20.86                  | 20.83                | 22.5          | 0.5      |  |  |
| 15               | 64QAM      | 36      | 39        | 20.80               | 20.90                  | 20.76                |               |          |  |  |
| 15               | 64QAM      | 75      | 0         | 20.76               | 20.76                  | 20.71                |               |          |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 10               | QPSK       | 1       | 0         | 21.51               | 21.67                  | 21.44                |               |          |  |  |
| 10               | QPSK       | 1       | 25        | 21.34               | 21.49                  | 21.33                | 23            | 0        |  |  |
| 10               | QPSK       | 1       | 49        | 21.52               | 21.52                  | 21.30                |               |          |  |  |
| 10               | QPSK       | 25      | 0         | 21.41               | 21.60                  | 21.40                |               |          |  |  |
| 10               | QPSK       | 25      | 12        | 21.47               | 21.57                  | 21.36                | 23            | 0        |  |  |
| 10               | QPSK       | 25      | 25        | 21.38               | 21.55                  | 21.33                |               |          |  |  |
| 10               | QPSK       | 50      | 0         | 21.45               | 21.58                  | 21.35                |               |          |  |  |
| 10               | 16QAM      | 1       | 0         | 21.40               | 21.55                  | 21.29                |               |          |  |  |
| 10               | 16QAM      | 1       | 25        | 21.46               | 21.54                  | 21.33                | 23            | 0        |  |  |
| 10               | 16QAM      | 1       | 49        | 21.44               | 21.62                  | 21.33                |               |          |  |  |
| 10               | 16QAM      | 25      | 0         | 21.41               | 21.54                  | 21.46                |               |          |  |  |
| 10               | 16QAM      | 25      | 12        | 21.45               | 21.50                  | 21.27                | 23            | 0        |  |  |
| 10               | 16QAM      | 25      | 25        | 21.47               | 21.47                  | 21.30                |               |          |  |  |
| 10               | 16QAM      | 50      | 0         | 21.49               | 21.57                  | 21.38                |               |          |  |  |
| 10               | 64QAM      | 1       | 0         | 21.44               | 21.59                  | 21.35                |               |          |  |  |
| 10               | 64QAM      | 1       | 25        | 21.42               | 21.60                  | 21.39                | 23            | 0        |  |  |
| 10               | 64QAM      | 1       | 49        | 21.48               | 21.62                  | 21.33                |               |          |  |  |
| 10               | 64QAM      | 25      | 0         | 21.43               | 21.54                  | 21.46                |               |          |  |  |
| 10               | 64QAM      | 25      | 12        | 21.43               | 21.51                  | 21.41                | 23            | 0        |  |  |
| 10               | 64QAM      | 25      | 25        | 21.38               | 21.54                  | 21.42                |               |          |  |  |
| 10               | 64QAM      | 50      | 0         | 21.32               | 21.57                  | 21.41                |               |          |  |  |
| 10               | 64QAM      | 1       | 0         | 21.42               | 21.55                  | 21.41                |               |          |  |  |
| 10               | 64QAM      | 1       | 25        | 21.41               | 21.62                  | 21.49                | 23            | 0        |  |  |
| 10               | 64QAM      | 1       | 49        | 21.30               | 21.65                  | 21.38                |               |          |  |  |
| 10               | 64QAM      | 1       | 24        | 21.34               | 21.56                  | 21.41                | 23            | 0        |  |  |
| 10               | 64QAM      | 1       | 37        | 21.38               | 21.57                  | 21.49                |               |          |  |  |
| 10               | 64QAM      | 1       | 74        | 21.35               | 21.60                  | 21.48                |               |          |  |  |
| 10               | 64QAM      | 36      | 0         | 21.28               | 21.28                  | 21.25                |               |          |  |  |
| 10               | 64QAM      | 36      | 20        | 21.30               | 21.40                  | 20.84                | 22.5          | 0.5      |  |  |
| 10               | 64QAM      | 36      | 39        | 21.30               | 21.03                  | 20.94                |               |          |  |  |
| 10               | 64QAM      | 75      | 0         | 21.29               | 21.17                  | 21.00                |               |          |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 5                | QPSK       | 1       | 0         | 21.35               | 21.63                  | 21.43                |               |          |  |  |
| 5                | QPSK       | 1       | 12        | 21.31               | 21.55                  | 21.40                | 23            | 0        |  |  |
| 5                | QPSK       | 1       | 24        | 21.33               | 21.63                  | 21.38                |               |          |  |  |
| 5                | QPSK       | 12      | 0         | 21.44               | 21.56                  | 21.34                |               |          |  |  |
| 5                | QPSK       | 12      | 7         | 21.34               | 21.64                  | 21.34                | 23            | 0        |  |  |
| 5                | QPSK       | 12      | 13        | 21.35               | 21.58                  | 21.45                |               |          |  |  |
| 5                | QPSK       | 25      | 0         | 21.31               | 21.62                  | 21.41                |               |          |  |  |
| 5                | 16QAM      | 1       | 0         | 21.37               | 21.46                  | 21.41                | 23            | 0        |  |  |
| 5                | 16QAM      | 1       | 12        | 21.41               | 21.55                  | 21.40                |               |          |  |  |
| 5                | 16QAM      | 1       | 24        | 21.29               | 21.56                  | 21.41                |               |          |  |  |
| 5                | 16QAM      | 12      | 0         | 21.30               | 21.60                  | 21.53                |               |          |  |  |
| 5                | 16QAM      | 12      | 7         | 21.34               | 21.59                  | 21.43                | 23            | 0        |  |  |
| 5                | 16QAM      | 12      | 13        | 21.33               | 21.51                  | 21.37                |               |          |  |  |
| 5                | 16QAM      | 25      | 0         | 21.31               | 21.56                  | 21.43                |               |          |  |  |
| 5                | 16QAM      | 25      | 12        | 21.34               | 21.50                  | 21.38                | 23            | 0        |  |  |
| 5                | 64QAM      | 1       | 0         | 21.24               | 21.62                  | 21.48                |               |          |  |  |
| 5                | 64QAM      | 1       | 24        | 21.31               | 21.61                  | 21.42                |               |          |  |  |
| 5                | 64QAM      | 12      | 0         | 21.34               | 21.25                  | 21.01                | 22.5          | 0.5      |  |  |
| 5                | 64QAM      | 12      | 7         | 21.28               | 21.11                  | 20.86                |               |          |  |  |
| 5                | 64QAM      | 12      | 13        | 20.89               | 21.03                  | 20.96                | 22.5          | 0.5      |  |  |
| 5                | 64QAM      | 25      | 0         | 21.30               | 21.13                  | 21.01                |               |          |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 3                | QPSK       | 1       | 0         | 21.30               | 21.62                  | 21.39                |               |          |  |  |
| 3                | QPSK       | 1       | 8         | 21.30               | 21.56                  | 21.46                | 23            | 0        |  |  |
| 3                | QPSK       | 1       | 14        | 21.26               | 21.61                  | 21.36                |               |          |  |  |
| 3                | QPSK       | 8       | 0         | 21.42               | 21.63                  | 21.43                |               |          |  |  |
| 3                | QPSK       | 8       | 4         | 21.30               | 21.54                  | 21.37                | 23            | 0        |  |  |
| 3                | QPSK       | 8       | 7         | 21.36               | 21.59                  | 21.51                |               |          |  |  |
| 3                | QPSK       | 15      | 0         | 21.28               | 21.59                  | 21.38                |               |          |  |  |
| 3                | 16QAM      | 1       | 0         | 21.42               | 21.53                  | 21.44                |               |          |  |  |
| 3                | 16QAM      | 1       | 8         | 21.39               | 21.60                  | 21.44                | 23            | 0        |  |  |
| 3                | 16QAM      | 1       | 14        | 21.37               | 21.57                  | 21.42                |               |          |  |  |
| 3                | 16QAM      | 3       | 0         | 21.38               | 21.65                  | 21.46                | 23            | 0        |  |  |
| 3                | 16QAM      | 3       | 1         | 21.30               | 21.63                  | 21.43                |               |          |  |  |
| 3                | 16QAM      | 3       | 1         | 21.33               | 21.16                  | 20.98                |               |          |  |  |
| 3                | 64QAM      | 8       | 4         | 21.20               | 21.08                  | 20.93                | 22.5          | 0.5      |  |  |
| 3                | 64QAM      | 8       | 7         | 21.20               | 21.08                  | 20.94                |               |          |  |  |
| 3                | 64QAM      | 15      | 0         | 21.27               | 21.12                  | 20.98                |               |          |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 1.4              | QPSK       | 1       | 0         | 21.33               | 21.60                  | 21.38                |               |          |  |  |
| 1.4              | QPSK       | 1       | 3         | 21.36               | 21.60                  | 21.40                |               |          |  |  |
| 1.4              | QPSK       | 1       | 5         | 21.24               | 21.57                  | 21.41                | 23            | 0        |  |  |
| 1.4              | QPSK       | 3       | 0         | 21.39               | 21.60                  | 21.37                |               |          |  |  |
| 1.4              | QPSK       | 3       | 1         | 21.37               | 21.57                  | 21.42                |               |          |  |  |
| 1.4              | QPSK       | 3       | 3         | 21.38               | 21.60                  | 21.42                | 23            | 0        |  |  |
| 1.4              | QPSK       | 6       | 0         | 21.38               | 21.65                  | 21.46                |               |          |  |  |
| 1.4              | 16QAM      | 1       | 0         | 21.37               | 21.53                  | 21.39                |               |          |  |  |
| 1.4              | 16QAM      | 1       | 3         | 21.49               | 21.53                  | 21.30                | 23            | 0        |  |  |
| 1.4              | 16QAM      | 1       | 5         | 21.46               | 21.58                  | 21.31                |               |          |  |  |
| 1.4              | 16QAM      | 3       | 0         | 21.44               | 21.54                  | 21.35                | 23            | 0        |  |  |
| 1.4              | 16QAM      | 3       | 1         | 21.44               | 21.51                  | 21.29                |               |          |  |  |
| 1.4              | 16QAM      | 3       | 3         | 21.48               | 21.58                  | 21.41                |               |          |  |  |
| 1.4              | 16QAM      | 6       | 0         | 21.42               | 21.52                  | 21.38                | 23            | 0        |  |  |
| 1.4              | 64QAM      | 1       | 0         | 21.38               | 21.46                  | 21.39                |               |          |  |  |
| 1.4              | 64QAM      | 1       | 3         | 21.37               | 21.58                  | 21.42                |               |          |  |  |
| 1.4              |            |         |           |                     |                        |                      |               |          |  |  |

| Band 13 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              |            |         |           | 23250                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |            |         |           | 782                   |                          |                        |                     |          |  |  |
| 10                   | QPSK       | 1       | 0         | 24.34                 | 24.34                    | 24.13                  |                     |          |  |  |
| 10                   | QPSK       | 1       | 25        | 24.31                 | 24.31                    | 24.13                  | 25.5                | 0        |  |  |
| 10                   | QPSK       | 1       | 49        | 24.23                 | 24.23                    | 24.13                  |                     |          |  |  |
| 10                   | QPSK       | 25      | 0         | 23.31                 | 23.31                    | 23.06                  |                     |          |  |  |
| 10                   | QPSK       | 25      | 12        | 23.16                 | 23.16                    | 23.00                  | 24.5                | 1        |  |  |
| 10                   | QPSK       | 25      | 25        | 23.27                 | 23.27                    | 23.01                  |                     |          |  |  |
| 10                   | QPSK       | 50      | 0         | 23.32                 | 23.32                    | 23.14                  |                     |          |  |  |
| 10                   | 16QAM      | 1       | 0         | 23.31                 | 23.31                    | 23.11                  |                     |          |  |  |
| 10                   | 16QAM      | 1       | 25        | 23.18                 | 23.18                    | 23.06                  | 24.5                | 1        |  |  |
| 10                   | 16QAM      | 1       | 49        | 23.28                 | 23.28                    | 23.04                  |                     |          |  |  |
| 10                   | 16QAM      | 25      | 0         | 22.31                 | 22.31                    | 22.00                  |                     |          |  |  |
| 10                   | 16QAM      | 25      | 12        | 22.17                 | 22.17                    | 21.95                  | 23.5                | 2        |  |  |
| 10                   | 16QAM      | 25      | 25        | 22.26                 | 22.26                    | 21.96                  |                     |          |  |  |
| 10                   | 16QAM      | 50      | 0         | 22.36                 | 22.36                    | 22.02                  |                     |          |  |  |
| 10                   | 64QAM      | 1       | 0         | 22.23                 | 22.23                    | 22.13                  |                     |          |  |  |
| 10                   | 64QAM      | 1       | 25        | 22.10                 | 22.10                    | 22.02                  | 23.5                | 2        |  |  |
| 10                   | 64QAM      | 1       | 49        | 22.20                 | 22.20                    | 22.05                  |                     |          |  |  |
| 10                   | 64QAM      | 25      | 0         | 21.37                 | 21.37                    | 21.03                  |                     |          |  |  |
| 10                   | 64QAM      | 25      | 12        | 21.31                 | 21.31                    | 21.04                  | 22.5                | 3        |  |  |
| 10                   | 64QAM      | 25      | 25        | 21.26                 | 21.26                    | 21.04                  |                     |          |  |  |
| 10                   | 64QAM      | 50      | 0         | 21.29                 | 21.29                    | 21.08                  |                     |          |  |  |
| Channel              |            |         |           | 23205                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |            |         |           | 779.5                 |                          |                        |                     |          |  |  |
| 5                    | QPSK       | 1       | 0         | 24.15                 | 24.19                    | 24.13                  |                     |          |  |  |
| 5                    | QPSK       | 1       | 12        | 24.20                 | 24.14                    | 24.13                  | 25.5                | 0        |  |  |
| 5                    | QPSK       | 1       | 24        | 24.08                 | 24.19                    | 24.07                  |                     |          |  |  |
| 5                    | QPSK       | 12      | 0         | 23.24                 | 23.13                    | 23.27                  |                     |          |  |  |
| 5                    | QPSK       | 12      | 7         | 22.97                 | 23.10                    | 23.07                  | 24.5                | 1        |  |  |
| 5                    | QPSK       | 12      | 13        | 23.21                 | 23.18                    | 23.24                  |                     |          |  |  |
| 5                    | QPSK       | 25      | 0         | 23.19                 | 23.10                    | 23.29                  |                     |          |  |  |
| 5                    | 16QAM      | 1       | 0         | 23.12                 | 23.12                    | 23.27                  |                     |          |  |  |
| 5                    | 16QAM      | 1       | 12        | 22.98                 | 23.15                    | 23.15                  | 24.5                | 1        |  |  |
| 5                    | 16QAM      | 1       | 24        | 23.23                 | 23.21                    | 23.12                  |                     |          |  |  |
| 5                    | 16QAM      | 12      | 0         | 22.14                 | 22.10                    | 22.20                  |                     |          |  |  |
| 5                    | 16QAM      | 12      | 7         | 22.14                 | 22.11                    | 21.99                  | 23.5                | 2        |  |  |
| 5                    | 16QAM      | 12      | 13        | 22.16                 | 22.22                    | 22.12                  |                     |          |  |  |
| 5                    | 16QAM      | 25      | 0         | 22.31                 | 22.30                    | 22.31                  |                     |          |  |  |
| 5                    | 64QAM      | 1       | 0         | 22.02                 | 22.06                    | 22.20                  |                     |          |  |  |
| 5                    | 64QAM      | 1       | 12        | 21.96                 | 22.03                    | 21.96                  | 23.5                | 2        |  |  |
| 5                    | 64QAM      | 1       | 24        | 22.15                 | 22.04                    | 22.11                  |                     |          |  |  |
| 5                    | 64QAM      | 12      | 0         | 21.34                 | 21.29                    | 21.32                  |                     |          |  |  |
| 5                    | 64QAM      | 12      | 7         | 21.22                 | 21.09                    | 21.21                  | 22.5                | 3        |  |  |
| 5                    | 64QAM      | 12      | 13        | 21.09                 | 21.14                    | 21.12                  |                     |          |  |  |
| 5                    | 64QAM      | 25      | 0         | 21.23                 | 21.23                    | 21.19                  |                     |          |  |  |

| Band 26 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              |            |         |           | 26765                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 821.5                 |                          |                        |                     |          |  |
| 15                   | QPSK       | 1       | 0         | 24.02                 | 24.41                    | 24.19                  |                     |          |  |
| 15                   | QPSK       | 1       | 37        | 23.92                 | 24.29                    | 24.14                  | 25.5                | 0        |  |
| 15                   | QPSK       | 1       | 74        | 23.97                 | 24.28                    | 24.08                  |                     |          |  |
| 15                   | QPSK       | 36      | 0         | 22.98                 | 23.11                    | 23.06                  |                     |          |  |
| 15                   | QPSK       | 36      | 20        | 22.97                 | 23.00                    | 23.00                  | 24.5                | 1        |  |
| 15                   | QPSK       | 36      | 39        | 22.86                 | 22.97                    | 23.01                  |                     |          |  |
| 15                   | QPSK       | 75      | 0         | 23.01                 | 23.15                    | 23.14                  |                     |          |  |
| 15                   | 16QAM      | 1       | 0         | 23.02                 | 23.17                    | 23.11                  |                     |          |  |
| 15                   | 16QAM      | 1       | 37        | 22.87                 | 23.03                    | 23.06                  | 24.5                | 1        |  |
| 15                   | 16QAM      | 1       | 74        | 22.93                 | 23.08                    | 23.04                  |                     |          |  |
| 15                   | 16QAM      | 36      | 0         | 22.02                 | 22.20                    | 22.00                  |                     |          |  |
| 15                   | 16QAM      | 36      | 20        | 21.91                 | 22.12                    | 21.95                  | 23.5                | 2        |  |
| 15                   | 16QAM      | 36      | 39        | 21.94                 | 22.16                    | 21.96                  |                     |          |  |
| 15                   | 16QAM      | 75      | 0         | 21.87                 | 22.17                    | 22.02                  |                     |          |  |
| 15                   | 64QAM      | 1       | 0         | 22.02                 | 22.12                    | 22.13                  |                     |          |  |
| 15                   | 64QAM      | 1       | 37        | 21.92                 | 22.00                    | 22.02                  | 23.5                | 2        |  |
| 15                   | 64QAM      | 1       | 74        | 21.99                 | 22.04                    | 22.05                  |                     |          |  |
| 15                   | 64QAM      | 36      | 0         | 20.78                 | 20.94                    | 20.85                  |                     |          |  |
| 15                   | 64QAM      | 36      | 39        | 20.69                 | 21.04                    | 20.90                  | 22.5                | 3        |  |
| 15                   | 64QAM      | 75      | 0         | 20.88                 | 21.08                    | 21.08                  |                     |          |  |
| Channel              |            |         |           | 26740                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 819                   |                          |                        |                     |          |  |
| 10                   | QPSK       | 1       | 0         | 23.86                 | 24.38                    | 23.98                  |                     |          |  |
| 10                   | QPSK       | 1       | 25        | 23.80                 | 24.24                    | 23.92                  | 25.5                | 0        |  |
| 10                   | QPSK       | 1       | 49        | 23.89                 | 24.10                    | 23.92                  |                     |          |  |
| 10                   | QPSK       | 25      | 0         | 22.89                 | 22.98                    | 23.00                  |                     |          |  |
| 10                   | QPSK       | 25      | 12        | 22.67                 | 22.85                    | 22.82                  | 24.5                | 1        |  |
| 10                   | QPSK       | 25      | 25        | 22.81                 | 22.85                    | 22.79                  |                     |          |  |
| 10                   | QPSK       | 50      | 0         | 22.92                 | 23.11                    | 23.11                  |                     |          |  |
| 10                   | 16QAM      | 1       | 0         | 23.80                 | 24.25                    | 23.92                  |                     |          |  |
| 10                   | 16QAM      | 1       | 25        | 22.72                 | 22.82                    | 22.87                  | 24.5                | 1        |  |
| 10                   | 16QAM      | 1       | 49        | 22.89                 | 22.93                    | 22.94                  |                     |          |  |
| 10                   | 16QAM      | 25      | 0         | 21.83                 | 22.15                    | 21.96                  |                     |          |  |
| 10                   | 16QAM      | 25      | 12        | 21.70                 | 22.10                    | 21.91                  | 23.5                | 2        |  |
| 10                   | 16QAM      | 25      | 25        | 21.78                 | 22.11                    | 21.85                  |                     |          |  |
| 10                   | 16QAM      | 50      | 0         | 21.80                 | 22.09                    | 21.98                  |                     |          |  |
| 10                   | 64QAM      | 1       | 0         | 21.91                 | 22.05                    | 21.94                  |                     |          |  |
| 10                   | 64QAM      | 1       | 25        | 21.89                 | 21.85                    | 21.90                  | 23.5                | 2        |  |
| 10                   | 64QAM      | 1       | 49        | 21.78                 | 22.02                    | 21.93                  |                     |          |  |
| 10                   | 64QAM      | 25      | 0         | 20.75                 | 21.04                    | 20.82                  |                     |          |  |
| 10                   | 64QAM      | 25      | 12        | 20.68                 | 20.92                    | 20.80                  | 22.5                | 3        |  |
| 10                   | 64QAM      | 25      | 25        | 20.58                 | 20.86                    | 20.73                  |                     |          |  |
| 10                   | 64QAM      | 50      | 0         | 20.60                 | 20.90                    | 20.65                  |                     |          |  |
| Channel              |            |         |           | 26715                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 816.5                 |                          |                        |                     |          |  |
| 5                    | QPSK       | 1       | 0         | 23.82                 | 24.26                    | 24.13                  |                     |          |  |
| 5                    | QPSK       | 1       | 12        | 23.81                 | 24.26                    | 24.08                  | 25.5                | 0        |  |
| 5                    | QPSK       | 1       | 24        | 23.83                 | 24.15                    | 23.93                  |                     |          |  |
| 5                    | QPSK       | 12      | 0         | 22.95                 | 23.03                    | 22.91                  |                     |          |  |
| 5                    | QPSK       | 12      | 7         | 22.80                 | 22.88                    | 22.90                  | 24.5                | 1        |  |
| 5                    | QPSK       | 12      | 13        | 22.78                 | 22.83                    | 22.86                  |                     |          |  |
| 5                    | QPSK       | 25      | 0         | 22.88                 | 23.04                    | 22.99                  |                     |          |  |
| 5                    | 16QAM      | 1       | 0         | 22.85                 | 23.01                    | 22.91                  |                     |          |  |
| 5                    | 16QAM      | 1       | 12        | 22.66                 | 22.93                    | 23.00                  | 24.5                | 1        |  |
| 5                    | 16QAM      | 1       | 24        | 22.82                 | 22.87                    | 23.00                  |                     |          |  |
| 5                    | 16QAM      | 12      | 0         | 21.96                 | 22.05                    | 21.80                  |                     |          |  |
| 5                    | 16QAM      | 12      | 7         | 21.74                 | 21.93                    | 21.84                  | 23.5                | 2        |  |
| 5                    | 16QAM      | 12      | 13        | 21.90                 | 21.96                    | 21.83                  |                     |          |  |
| 5                    | 16QAM      | 25      | 0         | 21.82                 | 22.03                    | 21.88                  |                     |          |  |
| 5                    | 64QAM      | 1       | 0         | 21.85                 | 21.98                    | 21.91                  |                     |          |  |
| 5                    | 64QAM      | 1       | 12        | 21.86                 | 21.95                    | 21.98                  | 23.5                | 2        |  |
| 5                    | 64QAM      | 1       | 24        | 21.82                 | 21.84                    | 22.02                  |                     |          |  |
| 5                    | 64QAM      | 12      | 0         | 20.61                 | 20.86                    | 20.85                  |                     |          |  |
| 5                    | 64QAM      | 12      | 7         | 20.69                 | 20.75                    | 20.75                  | 22.5                | 3        |  |
| 5                    | 64QAM      | 12      | 13        | 20.65                 | 20.88                    | 20.84                  |                     |          |  |
| 5                    | 64QAM      | 25      | 0         | 20.73                 | 20.99                    | 20.98                  |                     |          |  |
| Channel              |            |         |           | 26705                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 815.5                 |                          |                        |                     |          |  |
| 3                    | QPSK       | 1       | 0         | 23.91                 | 24.32                    | 24.00                  |                     |          |  |
| 3                    | QPSK       | 1       | 8         | 23.85                 | 24.25                    | 24.04                  | 25.5                | 0        |  |
| 3                    | QPSK       | 1       | 14        | 23.88                 | 24.17                    | 23.91                  |                     |          |  |
| 3                    | QPSK       | 8       | 0         | 22.77                 | 22.99                    | 22.85                  |                     |          |  |
| 3                    | QPSK       | 8       | 4         | 22.78                 | 22.87                    | 22.80                  | 24.5                | 1        |  |
| 3                    | QPSK       | 8       | 7         | 22.81                 | 22.88                    | 22.81                  |                     |          |  |
| 3                    | QPSK       | 15      | 0         | 22.98                 | 23.01                    | 23.06                  |                     |          |  |
| 3                    | 16QAM      | 1       | 0         | 23.00                 | 23.06                    | 23.05                  |                     |          |  |
| 3                    | 16QAM      | 1       | 8         | 22.81                 | 22.89                    | 22.91                  | 24.5                | 1        |  |
| 3                    | 16QAM      | 1       | 14        | 22.78                 | 23.05                    | 22.92                  |                     |          |  |
| 3                    | 16QAM      | 8       | 0         | 21.90                 | 22.02                    | 21.96                  |                     |          |  |
| 3                    | 16QAM      | 8       | 4         | 21.79                 | 21.91                    | 21.83                  | 23.5                | 2        |  |
| 3                    | 16QAM      | 8       | 7         | 21.76                 | 22.11                    | 21.83                  |                     |          |  |
| 3                    | 16QAM      | 15      | 0         | 21.70                 | 21.98                    | 21.87                  |                     |          |  |
| 3                    | 64QAM      | 1       | 0         | 21.87                 | 22.08                    | 22.11                  |                     |          |  |
| 3                    | 64QAM      | 1       | 8         | 21.85                 | 21.87                    | 21.82                  | 23.5                | 2        |  |
| 3                    | 64QAM      | 1       | 14        | 21.80                 | 22.02                    | 21.85                  |                     |          |  |
| 3                    | 64QAM      | 8       | 0         | 20.81                 | 21.03                    | 20.90                  |                     |          |  |
| 3                    | 64QAM      | 8       | 4         | 20.67                 | 20.82                    | 20.65                  | 22.5                | 3        |  |
| 3                    | 64QAM      | 8       | 7         | 20.47                 | 20.96                    | 20.75                  |                     |          |  |
| 3                    | 64QAM      | 15      | 0         | 20.78                 | 21.02                    | 20.98                  |                     |          |  |
| Channel              |            |         |           | 26697                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 814.7                 |                          |                        |                     |          |  |
| 1.4                  | QPSK       | 1       | 0         | 23.93                 | 24.26                    | 23.99                  |                     |          |  |
| 1                    |            |         |           |                       |                          |                        |                     |          |  |

| Band 38 Ant1 DS13 |             |         |           |                      |                         |                       |                     |          |  |  |
|-------------------|-------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|--|
| BW [MHz]          | Modulat ion | 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         | 22.34                | 22.53                   | 22.37                 |                     |          |  |  |
| 20                | QPSK        | 1       | 49        | 22.45                | 22.50                   | 22.41                 |                     |          |  |  |
| 20                | QPSK        | 1       | 99        | 22.35                | 22.45                   | 22.44                 |                     |          |  |  |
| 20                | QPSK        | 50      | 0         | 22.33                | 22.50                   | 22.37                 |                     |          |  |  |
| 20                | QPSK        | 50      | 24        | 22.36                | 22.47                   | 22.34                 |                     |          |  |  |
| 20                | QPSK        | 50      | 50        | 22.34                | 22.44                   | 22.45                 |                     |          |  |  |
| 20                | QPSK        | 100     | 0         | 22.30                | 22.46                   | 22.40                 |                     |          |  |  |
| 20                | 16QAM       | 1       | 0         | 22.27                | 22.48                   | 22.38                 |                     |          |  |  |
| 20                | 16QAM       | 1       | 49        | 22.30                | 22.41                   | 22.44                 |                     |          |  |  |
| 20                | 16QAM       | 1       | 99        | 22.34                | 22.45                   | 22.36                 |                     |          |  |  |
| 20                | 16QAM       | 50      | 0         | 21.54                | 21.86                   | 21.56                 |                     |          |  |  |
| 20                | 16QAM       | 50      | 24        | 21.56                | 21.46                   | 21.45                 |                     |          |  |  |
| 20                | 16QAM       | 50      | 50        | 21.53                | 21.54                   | 21.53                 |                     |          |  |  |
| 20                | 16QAM       | 100     | 0         | 21.46                | 21.66                   | 21.55                 |                     |          |  |  |
| 20                | 64QAM       | 1       | 0         | 21.67                | 21.67                   | 21.71                 |                     |          |  |  |
| 20                | 64QAM       | 1       | 49        | 21.52                | 21.68                   | 21.62                 |                     |          |  |  |
| 20                | 64QAM       | 1       | 99        | 21.32                | 21.46                   | 21.56                 |                     |          |  |  |
| 20                | 64QAM       | 50      | 0         | 21.10                | 21.20                   | 21.15                 |                     |          |  |  |
| 20                | 64QAM       | 50      | 24        | 21.01                | 21.09                   | 21.09                 |                     |          |  |  |
| 20                | 64QAM       | 50      | 50        | 20.99                | 21.12                   | 21.08                 |                     |          |  |  |
| 20                | 64QAM       | 100     | 0         | 21.07                | 21.19                   | 21.10                 |                     |          |  |  |
| Channel           |             |         |           | 37925                | 38000                   | 38175                 |                     |          |  |  |
| Frequency (MHz)   |             |         |           | 2577.5               | 2595                    | 2612.5                |                     |          |  |  |
| 15                | QPSK        | 1       | 0         | 22.33                | 22.45                   | 22.30                 |                     |          |  |  |
| 15                | QPSK        | 1       | 37        | 22.36                | 22.37                   | 22.34                 |                     |          |  |  |
| 15                | QPSK        | 1       | 74        | 22.23                | 22.23                   | 22.35                 |                     |          |  |  |
| 15                | QPSK        | 36      | 0         | 22.35                | 22.43                   | 22.35                 |                     |          |  |  |
| 15                | QPSK        | 36      | 20        | 22.30                | 22.37                   | 22.31                 |                     |          |  |  |
| 15                | QPSK        | 36      | 39        | 22.26                | 22.31                   | 22.38                 |                     |          |  |  |
| 15                | QPSK        | 75      | 0         | 22.22                | 22.33                   | 22.36                 |                     |          |  |  |
| 15                | 16QAM       | 1       | 0         | 22.14                | 22.37                   | 22.37                 |                     |          |  |  |
| 15                | 16QAM       | 1       | 37        | 22.13                | 22.42                   | 22.35                 |                     |          |  |  |
| 15                | 16QAM       | 1       | 74        | 22.22                | 22.23                   | 22.27                 |                     |          |  |  |
| 15                | 16QAM       | 36      | 0         | 21.43                | 21.55                   | 21.43                 |                     |          |  |  |
| 15                | 16QAM       | 36      | 20        | 21.43                | 21.35                   | 21.42                 |                     |          |  |  |
| 15                | 16QAM       | 36      | 39        | 21.44                | 21.51                   | 21.35                 |                     |          |  |  |
| 15                | 16QAM       | 75      | 0         | 21.32                | 21.55                   | 21.45                 |                     |          |  |  |
| 15                | 64QAM       | 1       | 0         | 21.46                | 21.62                   | 21.57                 |                     |          |  |  |
| 15                | 64QAM       | 1       | 37        | 21.37                | 21.58                   | 21.41                 |                     |          |  |  |
| 15                | 64QAM       | 1       | 74        | 21.33                | 21.43                   | 21.42                 |                     |          |  |  |
| 15                | 64QAM       | 36      | 0         | 21.03                | 21.10                   | 21.01                 |                     |          |  |  |
| 15                | 64QAM       | 36      | 20        | 20.96                | 21.00                   | 20.94                 |                     |          |  |  |
| 15                | 64QAM       | 36      | 39        | 20.91                | 21.00                   | 20.99                 |                     |          |  |  |
| 15                | 64QAM       | 75      | 0         | 21.03                | 21.14                   | 21.00                 |                     |          |  |  |
| Channel           |             |         |           | 37800                | 38000                   | 38200                 |                     |          |  |  |
| Frequency (MHz)   |             |         |           | 2575                 | 2595                    | 2615                  |                     |          |  |  |
| 10                | QPSK        | 1       | 0         | 22.34                | 22.41                   | 22.34                 |                     |          |  |  |
| 10                | QPSK        | 1       | 25        | 22.24                | 22.39                   | 22.32                 |                     |          |  |  |
| 10                | QPSK        | 1       | 49        | 22.19                | 22.26                   | 22.42                 |                     |          |  |  |
| 10                | QPSK        | 25      | 0         | 22.37                | 22.32                   | 22.29                 |                     |          |  |  |
| 10                | QPSK        | 25      | 12        | 22.25                | 22.43                   | 22.26                 |                     |          |  |  |
| 10                | QPSK        | 25      | 25        | 22.37                | 22.34                   | 22.40                 |                     |          |  |  |
| 10                | QPSK        | 50      | 0         | 22.13                | 22.29                   | 22.31                 |                     |          |  |  |
| 10                | 16QAM       | 1       | 0         | 22.28                | 22.37                   | 22.32                 |                     |          |  |  |
| 10                | 16QAM       | 1       | 25        | 22.20                | 22.44                   | 22.29                 |                     |          |  |  |
| 10                | 16QAM       | 1       | 49        | 22.27                | 22.34                   | 22.32                 |                     |          |  |  |
| 10                | 16QAM       | 25      | 0         | 21.51                | 21.55                   | 21.50                 |                     |          |  |  |
| 10                | 16QAM       | 25      | 12        | 21.44                | 21.36                   | 21.34                 |                     |          |  |  |
| 10                | 16QAM       | 25      | 25        | 21.35                | 21.51                   | 21.34                 |                     |          |  |  |
| 10                | 16QAM       | 50      | 0         | 21.34                | 21.55                   | 21.54                 |                     |          |  |  |
| 10                | 64QAM       | 1       | 0         | 21.42                | 21.61                   | 21.58                 |                     |          |  |  |
| 10                | 64QAM       | 1       | 25        | 21.51                | 21.49                   | 21.47                 |                     |          |  |  |
| 10                | 64QAM       | 1       | 49        | 21.26                | 21.46                   | 21.47                 |                     |          |  |  |
| 10                | 64QAM       | 25      | 0         | 21.03                | 21.09                   | 21.06                 |                     |          |  |  |
| 10                | 64QAM       | 25      | 12        | 20.95                | 21.03                   | 21.01                 |                     |          |  |  |
| 10                | 64QAM       | 25      | 25        | 20.92                | 21.04                   | 20.96                 |                     |          |  |  |
| 10                | 64QAM       | 50      | 0         | 20.94                | 21.04                   | 21.00                 |                     |          |  |  |
| Channel           |             |         |           | 37775                | 38000                   | 38225                 |                     |          |  |  |
| Frequency (MHz)   |             |         |           | 2572.5               | 2595                    | 2617.5                |                     |          |  |  |
| 5                 | QPSK        | 1       | 0         | 22.32                | 22.46                   | 22.49                 |                     |          |  |  |
| 5                 | QPSK        | 1       | 12        | 22.36                | 22.48                   | 22.44                 |                     |          |  |  |
| 5                 | QPSK        | 1       | 24        | 22.28                | 22.43                   | 22.43                 |                     |          |  |  |
| 5                 | QPSK        | 12      | 0         | 22.28                | 22.43                   | 22.39                 |                     |          |  |  |
| 5                 | QPSK        | 12      | 7         | 22.28                | 22.50                   | 22.32                 |                     |          |  |  |
| 5                 | QPSK        | 12      | 13        | 22.38                | 22.44                   | 22.38                 |                     |          |  |  |
| 5                 | QPSK        | 25      | 0         | 22.27                | 22.46                   | 22.51                 |                     |          |  |  |
| 5                 | 16QAM       | 1       | 0         | 22.24                | 22.44                   | 22.35                 |                     |          |  |  |
| 5                 | 16QAM       | 1       | 12        | 22.30                | 22.42                   | 22.34                 |                     |          |  |  |
| 5                 | 16QAM       | 1       | 24        | 22.27                | 22.39                   | 22.45                 |                     |          |  |  |
| 5                 | 16QAM       | 12      | 0         | 21.38                | 21.54                   | 21.58                 |                     |          |  |  |
| 5                 | 16QAM       | 12      | 7         | 21.37                | 21.41                   | 21.37                 |                     |          |  |  |
| 5                 | 16QAM       | 12      | 13        | 21.45                | 21.38                   | 21.44                 |                     |          |  |  |
| 5                 | 16QAM       | 25      | 0         | 21.38                | 21.54                   | 21.55                 |                     |          |  |  |
| 5                 | 64QAM       | 1       | 0         | 21.54                | 21.56                   | 21.57                 |                     |          |  |  |
| 5                 | 64QAM       | 1       | 12        | 21.37                | 21.47                   | 21.47                 |                     |          |  |  |
| 5                 | 64QAM       | 1       | 24        | 21.18                | 21.39                   | 21.50                 |                     |          |  |  |
| 5                 | 64QAM       | 12      | 0         | 21.02                | 21.10                   | 21.08                 |                     |          |  |  |
| 5                 | 64QAM       | 12      | 7         | 20.88                | 21.04                   | 21.02                 |                     |          |  |  |
| 5                 | 64QAM       | 12      | 13        | 20.92                | 21.07                   | 21.02                 |                     |          |  |  |
| 5                 | 64QAM       | 25      | 0         | 20.97                | 21.04                   | 20.94                 |                     |          |  |  |

| Band 41 Ant1 DS13 |             |         |           |                      |                         |                       |                     |          |  |  |
|-------------------|-------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|--|
| BW [MHz]          | Modulat ion | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel           |             |         |           | 39750                | 40185                   | 40620                 |                     |          |  |  |
| Frequency (MHz)   |             |         |           | 2506                 | 2549.5                  | 2593                  |                     |          |  |  |
| 20                | QPSK        | 1       | 0         | 22.47                | 22.34                   | 22.56                 |                     |          |  |  |
| 20                | QPSK        | 1       | 49        | 22.32                | 22.34                   | 22.48                 |                     |          |  |  |
| 20                | QPSK        | 1       | 99        | 22.45                | 22.30                   | 22.48                 |                     |          |  |  |
| 20                | QPSK        | 50      | 0         | 22.32                | 22.31                   | 22.53                 |                     |          |  |  |
| 20                | QPSK        | 50      | 24        | 22.34                | 22.29                   | 22.42                 |                     |          |  |  |
| 20                | QPSK        | 50      | 50        | 22.44                | 22.31                   | 22.52                 |                     |          |  |  |
| 20                | QPSK        | 100     | 0         | 22.36                | 22.33                   | 22.49                 |                     |          |  |  |
| 20                | 16QAM       | 1       | 0         | 22.41                | 22.29                   | 22.50                 |                     |          |  |  |
| 20                | 16QAM       | 1       | 49        | 22.42                | 22.31                   | 22.53                 |                     |          |  |  |
| 20                | 16QAM       | 1       | 99        | 22.42                | 22.31                   | 22.53                 |                     |          |  |  |
| 20                | 16QAM       | 50      | 0         | 22.13                | 22.14                   | 22.17                 |                     |          |  |  |
| 20                | 16QAM       | 50      | 24        | 22.10                | 22.06                   | 22.05                 |                     |          |  |  |
| 20                | 16QAM       | 50      | 50        | 22.03                | 22.08                   | 22.08                 |                     |          |  |  |
| 20                | 16QAM       | 100     | 0         | 22.17                | 22.23                   | 22.29                 |                     |          |  |  |
| 20                | 64QAM       | 1       | 0         | 22.30                | 22.24                   | 22.38                 |                     |          |  |  |
| 20                | 64QAM       | 1       | 49        | 22.23                | 22.17                   | 22.25                 |                     |          |  |  |
| 20                | 64QAM       | 1       | 99        | 22.18                | 22.16                   | 22.26                 |                     |          |  |  |
| 20                | 64QAM       | 50      | 0         | 21.10                | 21.19                   | 21.28                 |                     |          |  |  |
| 20                | 64QAM       | 50      | 24        | 21.02                | 21.09                   | 21.13                 |                     |          |  |  |
| 20                | 64QAM       | 50      | 50        | 21.07                | 21.05                   | 21.19                 |                     |          |  |  |
| 20                | 64QAM       | 100     | 0         | 21.21                | 21.21                   | 21.30                 |                     |          |  |  |
| Channel           |             |         |           | 39725                | 40173                   | 40620                 |                     |          |  |  |
| Frequency (MHz)   |             |         |           | 2503.5               | 2548.3                  | 2593                  |                     |          |  |  |
| 15                | QPSK        | 1       | 0         | 22.29                | 22.27                   | 22.47                 |                     |          |  |  |
| 15                | QPSK        | 1       | 37        | 22.29                | 22.30                   | 22.43                 |                     |          |  |  |
| 15                | QPSK        | 1       | 74        | 22.41                | 22.26                   | 22.42                 |                     |          |  |  |
| 15                | QPSK        | 36      | 0         | 22.24                | 22.22                   | 22.49                 |                     |          |  |  |
| 15                | QPSK        | 36      | 20        | 22.34                | 22.34                   | 22.32                 |                     |          |  |  |
| 15                | QPSK        | 36      | 39        | 22.37                | 22.25                   | 22.48                 |                     |          |  |  |
| 15                | QPSK        | 75      | 0         | 22.31                | 22.27                   | 22.40                 |                     |          |  |  |
| 15                | 16QAM       | 1       | 0         | 22.33                | 22.24                   | 22.46                 |                     |          |  |  |
| 15                | 16QAM       | 1       | 37        | 22.34                | 22.23                   | 22.37                 |                     |          |  |  |
| 15                | 16QAM       | 1       | 74        | 22.38                | 22.24                   | 22.47                 |                     |          |  |  |
| 15                | 16QAM       | 36      | 0         | 22.10                | 22.06                   | 22.09                 |                     |          |  |  |
| 15                | 16QAM       | 36      | 20        | 22.06                | 22.00                   | 21.96                 |                     |          |  |  |
| 15                | 16QAM       | 36      | 39        | 21.96                | 22.01                   | 22.04                 |                     |          |  |  |
| 15                | 16QAM       | 75      | 0         | 22.14                | 22.16                   | 22.25                 |                     |          |  |  |
| 15                |             |         |           |                      |                         |                       |                     |          |  |  |



| GSM850 An4 DSS       |                           |       |       |                           |                           |       |       |
|----------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|
| GSM850<br>TX Channel | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       |
|                      | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |
| Frequency (MHz)      | 25.2                      | 31.4  | 41.3  | 33.0                      | 32.2                      | 37.4  | 47.3  |
| GSM 1 Tx slot        | 31.84                     | 32.00 | 31.79 | 33.00                     | 22.80                     | 23.00 | 22.79 |
| GPRS 1 Tx slot       | 31.84                     | 32.04 | 31.82 | 33.00                     | 22.84                     | 23.04 | 22.82 |
| GPRS 2 Tx slots      | 29.39                     | 29.32 | 29.42 | 30.50                     | 23.39                     | 23.32 | 23.42 |
| GPRS 3 Tx slots      | 27.90                     | 27.91 | 27.92 | 29.00                     | 22.74                     | 22.75 | 22.86 |
| GPRS 4 Tx slots      | 25.80                     | 25.71 | 25.72 | 27.50                     | 22.80                     | 22.73 | 22.72 |
| EDGE 1 Tx slot       | 26.46                     | 26.45 | 26.40 | 27.50                     | 17.46                     | 17.45 | 17.40 |
| EDGE 2 Tx slots      | 22.94                     | 23.01 | 22.87 | 24.50                     | 16.94                     | 17.01 | 16.87 |
| EDGE 3 Tx slots      | 21.01                     | 21.02 | 21.02 | 23.00                     | 16.75                     | 16.76 | 16.74 |
| EDGE 4 Tx slots      | 20.32                     | 20.42 | 20.17 | 21.50                     | 17.32                     | 17.62 | 17.17 |

| GSM1900 An4 DSS       |                           |       |        |                           |                           |        |       |
|-----------------------|---------------------------|-------|--------|---------------------------|---------------------------|--------|-------|
| GSM1900<br>TX Channel | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |        |       |
|                       | 512                       | 861   | 810    |                           | 512                       | 861    | 810   |
| Frequency (MHz)       | 1650.2                    | 1680  | 1699.8 | 1650.2                    | 1680                      | 1699.8 |       |
| GSM 1 Tx slot         | 27.84                     | 27.92 | 28.20  | 29.50                     | 18.84                     | 18.92  | 19.20 |
| GPRS 1 Tx slot        | 27.87                     | 27.96 | 28.23  | 29.50                     | 18.87                     | 18.96  | 19.23 |
| GPRS 2 Tx slots       | 25.69                     | 26.05 | 26.02  | 27.00                     | 19.69                     | 20.05  | 20.02 |
| GPRS 3 Tx slots       | 23.47                     | 23.58 | 23.87  | 24.50                     | 19.21                     | 19.32  | 19.61 |
| GPRS 4 Tx slots       | 22.24                     | 22.25 | 22.74  | 23.00                     | 19.24                     | 19.25  | 19.74 |
| EDGE 1 Tx slot        | 24.51                     | 24.43 | 24.69  | 25.50                     | 15.51                     | 15.43  | 15.69 |
| EDGE 2 Tx slots       | 21.28                     | 21.13 | 21.44  | 22.00                     | 15.28                     | 15.13  | 15.44 |
| EDGE 3 Tx slots       | 19.32                     | 19.24 | 19.52  | 20.00                     | 15.06                     | 14.98  | 15.26 |
| EDGE 4 Tx slots       | 18.65                     | 18.56 | 18.69  | 19.00                     | 15.65                     | 15.56  | 15.69 |

| Band                             | WCDMA I An4 DSS |       |        |                           | WCDMA IV An4 DSS |        |        |                           | WCDMA V An4 An4 |       |       |                           |
|----------------------------------|-----------------|-------|--------|---------------------------|------------------|--------|--------|---------------------------|-----------------|-------|-------|---------------------------|
|                                  | 9262            | 9400  | 9538   | Tune-up<br>Limit<br>(dBm) | 1312             | 1413   | 1513   | Tune-up<br>Limit<br>(dBm) | 4132            | 4162  | 4233  | Tune-up<br>Limit<br>(dBm) |
| Rx Channel                       | 9662            | 9800  | 9938   |                           | 1537             | 1638   | 1738   |                           | 4357            | 4407  | 4458  |                           |
| Frequency (MHz)                  | 1652.2          | 1669  | 1687.8 |                           | 1722.4           | 1722.5 | 1722.3 |                           | 4357            | 4364  | 4368  |                           |
| 3GPP Rel 99 AMR 12.2Kbps         | 19.22           | 19.34 | 19.24  | 20.50                     | 17.54            | 17.78  | 17.64  | 19.00                     | 23.53           | 23.66 | 23.71 | 25.00                     |
| 3GPP Rel 99 RMC 12.2Kbps         | 19.32           | 19.37 | 19.29  | 20.50                     | 17.76            | 17.84  | 17.53  | 19.00                     | 23.58           | 23.73 | 23.72 | 25.00                     |
| 3GPP Rel 6 HSDPA Subtest-1       | 18.17           | 18.36 | 18.31  | 19.50                     | 16.67            | 16.69  | 16.67  | 18.00                     | 22.65           | 22.62 | 22.60 | 24.00                     |
| 3GPP Rel 6 HSDPA Subtest-2       | 16.20           | 16.30 | 16.14  | 18.50                     | 16.60            | 16.69  | 16.54  | 18.00                     | 22.65           | 22.70 | 22.50 | 24.00                     |
| 3GPP Rel 6 HSDPA Subtest-3       | 17.74           | 17.92 | 17.84  | 19.00                     | 16.02            | 16.12  | 16.17  | 17.50                     | 22.01           | 22.21 | 22.23 | 23.50                     |
| 3GPP Rel 6 HSDPA Subtest-4       | 17.73           | 17.84 | 17.74  | 19.00                     | 16.10            | 16.12  | 16.08  | 17.50                     | 22.06           | 22.17 | 22.00 | 23.50                     |
| 3GPP Rel 8 DC-HSDPA Subtest-1    | 18.14           | 18.31 | 18.22  | 19.50                     | 16.55            | 16.67  | 16.54  | 18.00                     | 22.53           | 22.63 | 22.60 | 24.00                     |
| 3GPP Rel 8 DC-HSDPA Subtest-2    | 18.10           | 18.18 | 18.19  | 19.50                     | 16.45            | 16.54  | 16.57  | 18.00                     | 22.50           | 22.54 | 22.51 | 24.00                     |
| 3GPP Rel 8 DC-HSDPA Subtest-3    | 17.80           | 17.85 | 17.76  | 19.00                     | 16.07            | 16.16  | 16.01  | 17.50                     | 22.03           | 22.22 | 22.02 | 23.50                     |
| 3GPP Rel 8 DC-HSDPA Subtest-4    | 17.61           | 17.68 | 17.62  | 19.00                     | 15.99            | 16.06  | 16.04  | 17.50                     | 21.95           | 22.15 | 22.05 | 23.50                     |
| 3GPP Rel 6 HSUPA Subtest-1       | 18.08           | 18.21 | 18.18  | 19.50                     | 16.44            | 16.55  | 16.50  | 18.00                     | 22.41           | 22.52 | 22.46 | 24.00                     |
| 3GPP Rel 6 HSUPA Subtest-2       | 16.21           | 16.38 | 16.26  | 17.50                     | 14.52            | 14.76  | 14.64  | 18.00                     | 20.52           | 20.72 | 20.63 | 22.00                     |
| 3GPP Rel 6 HSUPA Subtest-3       | 17.37           | 17.49 | 17.35  | 18.50                     | 15.64            | 15.73  | 15.62  | 17.00                     | 21.65           | 21.82 | 21.63 | 23.00                     |
| 3GPP Rel 6 HSUPA Subtest-4       | 16.14           | 16.30 | 16.17  | 17.50                     | 14.51            | 14.70  | 14.47  | 18.00                     | 20.51           | 20.69 | 20.55 | 22.00                     |
| 3GPP Rel 6 HSUPA Subtest-5       | 18.19           | 18.28 | 18.18  | 19.50                     | 16.46            | 16.66  | 16.50  | 18.00                     | 22.53           | 22.61 | 22.55 | 24.00                     |
| 3GPP Rel 7 HSPA+ (MCM) Subtest-1 | 15.76           | 15.85 | 15.76  | 17.00                     | 14.15            | 14.24  | 14.13  | 19.50                     | 20.13           | 20.24 | 20.17 | 21.50                     |



| Band 13 Ant4 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              |            |         |           | 23259                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 782                   |                          |                        |                     |          |  |
| 10                   | QPSK       | 1       | 0         | 24.24                 | 24.24                    | 24.14                  |                     |          |  |
| 10                   | QPSK       | 1       | 25        | 24.05                 | 24.05                    | 24.15                  | 25.5                | 0        |  |
| 10                   | QPSK       | 1       | 49        | 24.23                 | 24.23                    | 24.14                  |                     |          |  |
| 10                   | QPSK       | 25      | 0         | 23.17                 | 23.17                    | 23.16                  | 24.5                | 1        |  |
| 10                   | QPSK       | 25      | 12        | 22.96                 | 22.96                    | 22.96                  |                     |          |  |
| 10                   | QPSK       | 25      | 25        | 22.99                 | 22.99                    | 22.99                  |                     |          |  |
| 10                   | QPSK       | 50      | 0         | 23.06                 | 23.06                    | 23.06                  |                     |          |  |
| 10                   | 16QAM      | 1       | 0         | 23.18                 | 23.18                    | 23.15                  |                     |          |  |
| 10                   | 16QAM      | 1       | 25        | 23.07                 | 23.07                    | 23.15                  | 24.5                | 1        |  |
| 10                   | 16QAM      | 1       | 49        | 23.04                 | 23.04                    | 23.14                  |                     |          |  |
| 10                   | 16QAM      | 25      | 0         | 22.06                 | 22.06                    | 22.11                  |                     |          |  |
| 10                   | 16QAM      | 25      | 12        | 22.07                 | 22.07                    | 22.12                  |                     |          |  |
| 10                   | 16QAM      | 25      | 25        | 22.18                 | 22.18                    | 22.12                  | 23.5                | 2        |  |
| 10                   | 16QAM      | 50      | 0         | 22.11                 | 22.11                    | 22.12                  |                     |          |  |
| 10                   | 64QAM      | 1       | 0         | 22.34                 | 22.34                    | 22.34                  |                     |          |  |
| 10                   | 64QAM      | 1       | 25        | 22.45                 | 22.45                    | 22.34                  | 23.5                | 2        |  |
| 10                   | 64QAM      | 1       | 49        | 22.43                 | 22.43                    | 22.34                  |                     |          |  |
| 10                   | 64QAM      | 25      | 0         | 21.32                 | 21.32                    | 21.32                  |                     |          |  |
| 10                   | 64QAM      | 25      | 12        | 21.23                 | 21.23                    | 21.32                  |                     |          |  |
| 10                   | 64QAM      | 25      | 25        | 21.43                 | 21.43                    | 21.32                  | 22.5                | 3        |  |
| 10                   | 64QAM      | 50      | 0         | 21.28                 | 21.28                    | 21.32                  |                     |          |  |
| Channel              |            |         |           | 23205                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 782                   |                          |                        |                     |          |  |
| 5                    | QPSK       | 1       | 0         | 24.05                 | 24.10                    | 24.14                  |                     |          |  |
| 5                    | QPSK       | 1       | 12        | 23.89                 | 24.01                    | 23.96                  | 25.5                | 0        |  |
| 5                    | QPSK       | 1       | 24        | 24.06                 | 24.11                    | 24.11                  |                     |          |  |
| 5                    | QPSK       | 12      | 0         | 23.14                 | 22.98                    | 22.98                  |                     |          |  |
| 5                    | QPSK       | 12      | 7         | 22.87                 | 22.86                    | 22.85                  | 24.5                | 1        |  |
| 5                    | QPSK       | 12      | 13        | 22.85                 | 22.92                    | 22.88                  |                     |          |  |
| 5                    | QPSK       | 25      | 0         | 22.99                 | 23.00                    | 22.96                  |                     |          |  |
| 5                    | 16QAM      | 1       | 0         | 23.04                 | 23.04                    | 22.99                  |                     |          |  |
| 5                    | 16QAM      | 1       | 12        | 22.93                 | 23.03                    | 22.85                  | 24.5                | 1        |  |
| 5                    | 16QAM      | 1       | 24        | 22.83                 | 22.84                    | 22.99                  |                     |          |  |
| 5                    | 16QAM      | 12      | 0         | 21.99                 | 21.91                    | 21.85                  |                     |          |  |
| 5                    | 16QAM      | 12      | 7         | 21.97                 | 21.97                    | 21.89                  | 23.5                | 2        |  |
| 5                    | 16QAM      | 12      | 13        | 22.02                 | 21.99                    | 22.07                  |                     |          |  |
| 5                    | 16QAM      | 25      | 0         | 21.96                 | 22.02                    | 21.92                  |                     |          |  |
| 5                    | 64QAM      | 1       | 0         | 22.16                 | 22.24                    | 22.15                  |                     |          |  |
| 5                    | 64QAM      | 1       | 12        | 22.30                 | 22.40                    | 22.23                  | 23.5                | 2        |  |
| 5                    | 64QAM      | 1       | 24        | 22.38                 | 22.29                    | 22.23                  |                     |          |  |
| 5                    | 64QAM      | 12      | 0         | 21.16                 | 21.11                    | 21.12                  |                     |          |  |
| 5                    | 64QAM      | 12      | 7         | 21.10                 | 21.17                    | 21.03                  | 22.5                | 3        |  |
| 5                    | 64QAM      | 12      | 13        | 21.25                 | 21.21                    | 21.23                  |                     |          |  |
| 5                    | 64QAM      | 25      | 0         | 21.08                 | 21.19                    | 21.08                  |                     |          |  |

| Band 26 Ant4 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              |            |         |           | 26765                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 821.5                 |                          |                        |                     |          |  |
| 15                   | QPSK       | 1       | 0         | 24.06                 | 24.28                    | 24.12                  |                     |          |  |
| 15                   | QPSK       | 1       | 37        | 24.03                 | 24.19                    | 24.04                  | 25.5                | 0        |  |
| 15                   | QPSK       | 1       | 74        | 24.09                 | 24.07                    | 24.17                  |                     |          |  |
| 15                   | QPSK       | 36      | 0         | 23.06                 | 23.18                    | 23.16                  |                     |          |  |
| 15                   | QPSK       | 36      | 20        | 23.14                 | 23.13                    | 23.08                  | 24.5                | 1        |  |
| 15                   | QPSK       | 36      | 39        | 23.08                 | 22.96                    | 23.06                  |                     |          |  |
| 15                   | QPSK       | 75      | 0         | 23.15                 | 23.16                    | 23.01                  |                     |          |  |
| 15                   | 16QAM      | 1       | 0         | 23.19                 | 23.33                    | 23.15                  |                     |          |  |
| 15                   | 16QAM      | 1       | 37        | 23.13                 | 23.28                    | 23.31                  | 24.5                | 1        |  |
| 15                   | 16QAM      | 1       | 74        | 23.23                 | 23.27                    | 23.14                  |                     |          |  |
| 15                   | 16QAM      | 36      | 0         | 22.08                 | 22.24                    | 22.21                  |                     |          |  |
| 15                   | 16QAM      | 36      | 20        | 22.07                 | 22.33                    | 22.02                  | 23.5                | 2        |  |
| 15                   | 16QAM      | 36      | 39        | 22.05                 | 22.20                    | 22.12                  |                     |          |  |
| 15                   | 16QAM      | 75      | 0         | 22.19                 | 22.37                    | 22.18                  |                     |          |  |
| 15                   | 64QAM      | 1       | 0         | 22.05                 | 22.12                    | 22.06                  |                     |          |  |
| 15                   | 64QAM      | 1       | 37        | 22.13                 | 22.08                    | 22.10                  | 23.5                | 2        |  |
| 15                   | 64QAM      | 1       | 74        | 22.12                 | 22.10                    | 22.07                  |                     |          |  |
| 15                   | 64QAM      | 36      | 0         | 21.13                 | 21.16                    | 20.95                  |                     |          |  |
| 15                   | 64QAM      | 36      | 20        | 21.17                 | 21.27                    | 21.12                  | 22.5                | 3        |  |
| 15                   | 64QAM      | 36      | 39        | 21.12                 | 21.19                    | 21.16                  |                     |          |  |
| 15                   | 64QAM      | 75      | 0         | 21.12                 | 21.20                    | 21.13                  |                     |          |  |
| Channel              |            |         |           | 26740                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 819                   |                          |                        |                     |          |  |
| 10                   | QPSK       | 1       | 0         | 24.02                 | 24.12                    | 23.96                  |                     |          |  |
| 10                   | QPSK       | 1       | 25        | 23.99                 | 24.11                    | 23.94                  | 25.5                | 0        |  |
| 10                   | QPSK       | 1       | 49        | 23.88                 | 23.92                    | 23.99                  |                     |          |  |
| 10                   | QPSK       | 25      | 0         | 23.03                 | 22.97                    | 22.99                  |                     |          |  |
| 10                   | QPSK       | 25      | 12        | 22.98                 | 22.94                    | 23.03                  | 24.5                | 1        |  |
| 10                   | QPSK       | 25      | 25        | 22.90                 | 22.81                    | 22.93                  |                     |          |  |
| 10                   | QPSK       | 50      | 0         | 23.09                 | 23.14                    | 22.98                  |                     |          |  |
| 10                   | 16QAM      | 1       | 0         | 22.00                 | 22.04                    | 21.98                  |                     |          |  |
| 10                   | 16QAM      | 1       | 25        | 22.99                 | 23.22                    | 22.99                  | 24.5                | 1        |  |
| 10                   | 16QAM      | 1       | 49        | 23.14                 | 23.21                    | 22.96                  |                     |          |  |
| 10                   | 16QAM      | 25      | 0         | 21.92                 | 22.13                    | 22.13                  |                     |          |  |
| 10                   | 16QAM      | 25      | 12        | 22.04                 | 22.18                    | 21.96                  | 23.5                | 2        |  |
| 10                   | 16QAM      | 25      | 25        | 21.99                 | 22.12                    | 21.99                  |                     |          |  |
| 10                   | 16QAM      | 50      | 0         | 22.08                 | 22.32                    | 22.00                  |                     |          |  |
| 10                   | 64QAM      | 1       | 0         | 21.99                 | 22.01                    | 21.91                  |                     |          |  |
| 10                   | 64QAM      | 1       | 25        | 22.10                 | 21.90                    | 22.04                  | 23.5                | 2        |  |
| 10                   | 64QAM      | 1       | 49        | 22.05                 | 21.93                    | 22.02                  |                     |          |  |
| 10                   | 64QAM      | 25      | 0         | 20.93                 | 20.98                    | 20.75                  |                     |          |  |
| 10                   | 64QAM      | 25      | 12        | 20.97                 | 21.14                    | 20.95                  | 22.5                | 3        |  |
| 10                   | 64QAM      | 25      | 25        | 21.04                 | 21.03                    | 21.09                  |                     |          |  |
| 10                   | 64QAM      | 50      | 0         | 21.06                 | 21.11                    | 21.01                  |                     |          |  |
| Channel              |            |         |           | 26715                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 815.5                 |                          |                        |                     |          |  |
| 5                    | QPSK       | 1       | 0         | 23.91                 | 24.23                    | 23.90                  |                     |          |  |
| 5                    | QPSK       | 1       | 12        | 23.83                 | 24.01                    | 24.00                  | 25.5                | 0        |  |
| 5                    | QPSK       | 1       | 24        | 23.89                 | 24.02                    | 24.11                  |                     |          |  |
| 5                    | QPSK       | 12      | 0         | 22.90                 | 23.10                    | 23.10                  |                     |          |  |
| 5                    | QPSK       | 12      | 7         | 23.04                 | 22.97                    | 23.04                  | 24.5                | 1        |  |
| 5                    | QPSK       | 12      | 13        | 23.02                 | 22.78                    | 22.96                  |                     |          |  |
| 5                    | QPSK       | 25      | 0         | 23.09                 | 23.06                    | 22.93                  |                     |          |  |
| 5                    | 16QAM      | 1       | 0         | 23.11                 | 23.27                    | 23.03                  |                     |          |  |
| 5                    | 16QAM      | 1       | 12        | 22.96                 | 23.22                    | 23.14                  | 24.5                | 1        |  |
| 5                    | 16QAM      | 1       | 24        | 23.20                 | 23.13                    | 22.98                  |                     |          |  |
| 5                    | 16QAM      | 12      | 0         | 21.92                 | 22.16                    | 22.14                  |                     |          |  |
| 5                    | 16QAM      | 12      | 7         | 22.05                 | 22.30                    | 21.93                  | 23.5                | 2        |  |
| 5                    | 16QAM      | 12      | 13        | 21.89                 | 22.11                    | 22.06                  |                     |          |  |
| 5                    | 16QAM      | 25      | 0         | 22.18                 | 22.27                    | 22.09                  |                     |          |  |
| 5                    | 64QAM      | 1       | 0         | 22.01                 | 21.97                    | 21.89                  |                     |          |  |
| 5                    | 64QAM      | 1       | 12        | 22.00                 | 21.96                    | 21.90                  | 23.5                | 2        |  |
| 5                    | 64QAM      | 1       | 24        | 22.05                 | 22.03                    | 21.97                  |                     |          |  |
| 5                    | 64QAM      | 12      | 0         | 21.08                 | 21.01                    | 20.75                  |                     |          |  |
| 5                    | 64QAM      | 12      | 7         | 21.12                 | 21.11                    | 21.10                  | 22.5                | 3        |  |
| 5                    | 64QAM      | 12      | 13        | 20.92                 | 21.07                    | 21.12                  |                     |          |  |
| 5                    | 64QAM      | 25      | 0         | 21.06                 | 21.07                    | 21.08                  |                     |          |  |
| Channel              |            |         |           | 26705                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 815.5                 |                          |                        |                     |          |  |
| 3                    | QPSK       | 1       | 0         | 23.84                 | 24.12                    | 24.00                  |                     |          |  |
| 3                    | QPSK       | 1       | 8         | 23.82                 | 24.10                    | 24.00                  | 25.5                | 0        |  |
| 3                    | QPSK       | 1       | 14        | 24.07                 | 23.92                    | 24.05                  |                     |          |  |
| 3                    | QPSK       | 8       | 0         | 23.02                 | 23.04                    | 23.13                  |                     |          |  |
| 3                    | QPSK       | 8       | 4         | 22.93                 | 23.06                    | 22.87                  | 24.5                | 1        |  |
| 3                    | QPSK       | 8       | 7         | 23.01                 | 22.87                    | 23.03                  |                     |          |  |
| 3                    | QPSK       | 15      | 0         | 23.04                 | 23.11                    | 22.86                  |                     |          |  |
| 3                    | 16QAM      | 1       | 0         | 23.03                 | 23.24                    | 23.11                  |                     |          |  |
| 3                    | 16QAM      | 1       | 8         | 23.11                 | 23.10                    | 23.22                  | 24.5                | 1        |  |
| 3                    | 16QAM      | 1       | 14        | 23.15                 | 23.13                    | 23.11                  |                     |          |  |
| 3                    | 16QAM      | 8       | 0         | 22.01                 | 22.08                    | 22.13                  |                     |          |  |
| 3                    | 16QAM      | 8       | 4         | 21.85                 | 22.14                    | 21.85                  | 23.5                | 2        |  |
| 3                    | 16QAM      | 8       | 7         | 21.84                 | 22.08                    | 21.92                  |                     |          |  |
| 3                    | 16QAM      | 15      | 0         | 22.13                 | 22.21                    | 22.12                  |                     |          |  |
| 3                    | 64QAM      | 1       | 0         | 22.02                 | 22.02                    | 21.91                  |                     |          |  |
| 3                    | 64QAM      | 1       | 8         | 21.94                 | 21.94                    | 22.03                  | 23.5                | 2        |  |
| 3                    | 64QAM      | 1       | 14        | 21.98                 | 21.91                    | 21.89                  |                     |          |  |
| 3                    | 64QAM      | 8       | 0         | 21.02                 | 21.00                    | 20.78                  |                     |          |  |
| 3                    | 64QAM      | 8       | 4         | 21.10                 | 21.06                    | 21.00                  | 22.5                | 3        |  |
| 3                    | 64QAM      | 8       | 7         | 20.92                 | 20.98                    | 21.08                  |                     |          |  |
| 3                    | 64QAM      | 15      | 0         | 21.06                 | 21.04                    | 21.07                  |                     |          |  |
| Channel              |            |         |           | 26697                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 814.7                 |                          |                        |                     |          |  |
| 1.4                  | QPS        |         |           |                       |                          |                        |                     |          |  |



| Band 38 Ant4 DSI3 |            |         |           |                      |                         |                       |                     |          |  |  |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|--|
| BW [MHz]          | 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                 | 2585                    | 2610                  |                     |          |  |  |
| 20                | QPSK       | 1       | 0         | 20.50                | 20.71                   | 20.54                 |                     |          |  |  |
| 20                | QPSK       | 1       | 49        | 20.47                | 20.58                   | 20.62                 | 22                  | 0        |  |  |
| 20                | QPSK       | 1       | 99        | 20.49                | 20.59                   | 20.59                 |                     |          |  |  |
| 20                | QPSK       | 50      | 0         | 20.42                | 20.57                   | 20.58                 |                     |          |  |  |
| 20                | QPSK       | 50      | 24        | 20.41                | 20.64                   | 20.57                 | 22                  | 0        |  |  |
| 20                | QPSK       | 50      | 50        | 20.42                | 20.59                   | 20.59                 |                     |          |  |  |
| 20                | QPSK       | 100     | 0         | 20.40                | 20.60                   | 20.56                 |                     |          |  |  |
| 20                | 16QAM      | 1       | 0         | 20.41                | 20.61                   | 20.63                 |                     |          |  |  |
| 20                | 16QAM      | 1       | 49        | 20.46                | 20.60                   | 20.56                 | 22                  | 0        |  |  |
| 20                | 16QAM      | 1       | 99        | 20.43                | 20.70                   | 20.59                 |                     |          |  |  |
| 20                | 16QAM      | 50      | 0         | 20.52                | 20.67                   | 20.55                 |                     |          |  |  |
| 20                | 16QAM      | 50      | 24        | 20.41                | 20.61                   | 20.61                 | 22                  | 0        |  |  |
| 20                | 16QAM      | 50      | 50        | 20.40                | 20.62                   | 20.64                 |                     |          |  |  |
| 20                | 16QAM      | 100     | 0         | 20.43                | 20.65                   | 20.65                 |                     |          |  |  |
| 20                | 64QAM      | 1       | 0         | 20.49                | 20.62                   | 20.62                 |                     |          |  |  |
| 20                | 64QAM      | 1       | 49        | 20.50                | 20.63                   | 20.54                 | 22                  | 0        |  |  |
| 20                | 64QAM      | 1       | 99        | 20.46                | 20.63                   | 20.56                 |                     |          |  |  |
| 20                | 64QAM      | 50      | 0         | 20.47                | 20.67                   | 20.62                 |                     |          |  |  |
| 20                | 64QAM      | 50      | 24        | 20.42                | 20.67                   | 20.58                 | 22                  | 0        |  |  |
| 20                | 64QAM      | 50      | 50        | 20.40                | 20.62                   | 20.62                 |                     |          |  |  |
| 20                | 64QAM      | 100     | 0         | 20.50                | 20.59                   | 20.63                 |                     |          |  |  |
| Channel           |            |         |           | 37825                | 38000                   | 38175                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 2577.5               | 2595                    | 2612.5                |                     |          |  |  |
| 15                | QPSK       | 1       | 0         | 20.39                | 20.57                   | 20.42                 |                     |          |  |  |
| 15                | QPSK       | 1       | 37        | 20.37                | 20.43                   | 20.55                 | 22                  | 0        |  |  |
| 15                | QPSK       | 1       | 74        | 20.33                | 20.51                   | 20.47                 |                     |          |  |  |
| 15                | QPSK       | 36      | 0         | 20.37                | 20.56                   | 20.46                 |                     |          |  |  |
| 15                | QPSK       | 36      | 20        | 20.30                | 20.54                   | 20.51                 | 22                  | 0        |  |  |
| 15                | QPSK       | 36      | 39        | 20.35                | 20.50                   | 20.50                 |                     |          |  |  |
| 15                | QPSK       | 75      | 0         | 20.35                | 20.47                   | 20.40                 |                     |          |  |  |
| 15                | 16QAM      | 1       | 0         | 20.27                | 20.53                   | 20.48                 |                     |          |  |  |
| 15                | 16QAM      | 1       | 37        | 20.38                | 20.56                   | 20.41                 | 22                  | 0        |  |  |
| 15                | 16QAM      | 1       | 74        | 20.37                | 20.57                   | 20.49                 |                     |          |  |  |
| 15                | 16QAM      | 36      | 0         | 20.46                | 20.61                   | 20.42                 |                     |          |  |  |
| 15                | 16QAM      | 36      | 20        | 20.27                | 20.51                   | 20.48                 | 22                  | 0        |  |  |
| 15                | 16QAM      | 36      | 39        | 20.25                | 20.52                   | 20.56                 |                     |          |  |  |
| 15                | 16QAM      | 75      | 0         | 20.36                | 20.58                   | 20.55                 |                     |          |  |  |
| 15                | 64QAM      | 1       | 0         | 20.34                | 20.57                   | 20.54                 |                     |          |  |  |
| 15                | 64QAM      | 1       | 37        | 20.44                | 20.52                   | 20.50                 | 22                  | 0        |  |  |
| 15                | 64QAM      | 1       | 74        | 20.40                | 20.57                   | 20.48                 |                     |          |  |  |
| 15                | 64QAM      | 36      | 0         | 20.32                | 20.62                   | 20.48                 |                     |          |  |  |
| 15                | 64QAM      | 36      | 20        | 20.34                | 20.55                   | 20.43                 | 22                  | 0        |  |  |
| 15                | 64QAM      | 36      | 39        | 20.33                | 20.47                   | 20.48                 |                     |          |  |  |
| 15                | 64QAM      | 75      | 0         | 20.43                | 20.54                   | 20.51                 |                     |          |  |  |
| Channel           |            |         |           | 37800                | 38000                   | 38200                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 2575                 | 2595                    | 2615                  |                     |          |  |  |
| 10                | QPSK       | 1       | 0         | 20.38                | 20.63                   | 20.43                 |                     |          |  |  |
| 10                | QPSK       | 1       | 25        | 20.42                | 20.43                   | 20.52                 | 22                  | 0        |  |  |
| 10                | QPSK       | 1       | 49        | 20.36                | 20.46                   | 20.51                 |                     |          |  |  |
| 10                | QPSK       | 25      | 0         | 20.31                | 20.54                   | 20.45                 |                     |          |  |  |
| 10                | QPSK       | 25      | 12        | 20.27                | 20.50                   | 20.49                 | 22                  | 0        |  |  |
| 10                | QPSK       | 25      | 25        | 20.31                | 20.43                   | 20.52                 |                     |          |  |  |
| 10                | QPSK       | 50      | 0         | 20.29                | 20.50                   | 20.42                 |                     |          |  |  |
| 10                | 16QAM      | 1       | 0         | 20.26                | 20.48                   | 20.50                 |                     |          |  |  |
| 10                | 16QAM      | 1       | 25        | 20.42                | 20.47                   | 20.42                 | 22                  | 0        |  |  |
| 10                | 16QAM      | 1       | 49        | 20.39                | 20.65                   | 20.49                 |                     |          |  |  |
| 10                | 16QAM      | 25      | 0         | 20.46                | 20.63                   | 20.39                 |                     |          |  |  |
| 10                | 16QAM      | 25      | 12        | 20.28                | 20.50                   | 20.49                 | 22                  | 0        |  |  |
| 10                | 16QAM      | 25      | 25        | 20.29                | 20.57                   | 20.57                 |                     |          |  |  |
| 10                | 16QAM      | 50      | 0         | 20.30                | 20.50                   | 20.51                 |                     |          |  |  |
| 10                | 64QAM      | 1       | 0         | 20.43                | 20.56                   | 20.48                 |                     |          |  |  |
| 10                | 64QAM      | 1       | 25        | 20.35                | 20.53                   | 20.44                 | 22                  | 0        |  |  |
| 10                | 64QAM      | 1       | 49        | 20.32                | 20.51                   | 20.46                 |                     |          |  |  |
| 10                | 64QAM      | 25      | 0         | 20.33                | 20.53                   | 20.56                 |                     |          |  |  |
| 10                | 64QAM      | 25      | 12        | 20.32                | 20.55                   | 20.44                 | 22                  | 0        |  |  |
| 10                | 64QAM      | 25      | 25        | 20.31                | 20.51                   | 20.52                 |                     |          |  |  |
| 10                | 64QAM      | 50      | 0         | 20.36                | 20.52                   | 20.50                 |                     |          |  |  |
| Channel           |            |         |           | 37775                | 38000                   | 38225                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 2572.5               | 2595                    | 2617.5                |                     |          |  |  |
| 5                 | QPSK       | 1       | 0         | 20.37                | 20.60                   | 20.48                 |                     |          |  |  |
| 5                 | QPSK       | 1       | 12        | 20.35                | 20.53                   | 20.50                 | 22                  | 0        |  |  |
| 5                 | QPSK       | 1       | 24        | 20.37                | 20.54                   | 20.46                 |                     |          |  |  |
| 5                 | QPSK       | 12      | 0         | 20.28                | 20.54                   | 20.44                 |                     |          |  |  |
| 5                 | QPSK       | 12      | 7         | 20.33                | 20.48                   | 20.51                 | 22                  | 0        |  |  |
| 5                 | QPSK       | 12      | 13        | 20.31                | 20.53                   | 20.54                 |                     |          |  |  |
| 5                 | QPSK       | 25      | 0         | 20.35                | 20.44                   | 20.46                 |                     |          |  |  |
| 5                 | 16QAM      | 1       | 0         | 20.30                | 20.54                   | 20.55                 |                     |          |  |  |
| 5                 | 16QAM      | 1       | 12        | 20.43                | 20.50                   | 20.44                 | 22                  | 0        |  |  |
| 5                 | 16QAM      | 1       | 24        | 20.38                | 20.58                   | 20.49                 |                     |          |  |  |
| 5                 | 16QAM      | 12      | 0         | 20.39                | 20.52                   | 20.45                 |                     |          |  |  |
| 5                 | 16QAM      | 12      | 7         | 20.29                | 20.50                   | 20.56                 | 22                  | 0        |  |  |
| 5                 | 16QAM      | 12      | 13        | 20.32                | 20.55                   | 20.54                 |                     |          |  |  |
| 5                 | 16QAM      | 25      | 0         | 20.29                | 20.50                   | 20.58                 |                     |          |  |  |
| 5                 | 64QAM      | 1       | 0         | 20.37                | 20.57                   | 20.55                 |                     |          |  |  |
| 5                 | 64QAM      | 1       | 12        | 20.43                | 20.57                   | 20.46                 | 22                  | 0        |  |  |
| 5                 | 64QAM      | 1       | 24        | 20.32                | 20.50                   | 20.44                 |                     |          |  |  |
| 5                 | 64QAM      | 12      | 0         | 20.38                | 20.53                   | 20.54                 |                     |          |  |  |
| 5                 | 64QAM      | 12      | 7         | 20.28                | 20.52                   | 20.49                 | 22                  | 0        |  |  |
| 5                 | 64QAM      | 12      | 13        | 20.35                | 20.52                   | 20.54                 |                     |          |  |  |
| 5                 | 64QAM      | 25      | 0         | 20.42                | 20.47                   | 20.48                 |                     |          |  |  |

| Band 41 Ant4 DSI3 |            |         |           |                      |                         |                       |                     |          |  |  |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel           |            |         |           | 39750                | 40185                   | 40620                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 2506                 | 2549.5                  | 2593                  |                     |          |  |  |
| 20                | QPSK       | 1       | 0         | 20.68                | 20.86                   | 20.60                 |                     |          |  |  |
| 20                | QPSK       | 1       | 49        | 20.54                | 20.79                   | 20.70                 | 22                  | 0        |  |  |
| 20                | QPSK       | 1       | 99        | 20.64                | 20.80                   | 20.61                 |                     |          |  |  |
| 20                | QPSK       | 50      | 0         | 20.65                | 20.82                   | 20.66                 |                     |          |  |  |
| 20                | QPSK       | 50      | 24        | 20.61                | 20.78                   | 20.61                 | 22                  | 0        |  |  |
| 20                | QPSK       | 50      | 50        | 20.59                | 20.74                   | 20.65                 |                     |          |  |  |
| 20                | QPSK       | 100     | 0         | 20.52                | 20.73                   | 20.68                 |                     |          |  |  |
| 20                | 16QAM      | 1       | 0         | 20.46                | 20.72                   | 20.64                 |                     |          |  |  |
| 20                | 16QAM      | 1       | 49        | 20.50                | 20.73                   | 20.66                 | 22                  | 0        |  |  |
| 20                | 16QAM      | 1       | 99        | 20.61                | 20.76                   | 20.60                 |                     |          |  |  |
| 20                | 16QAM      | 50      | 0         | 20.55                | 20.72                   | 20.63                 |                     |          |  |  |
| 20                | 16QAM      | 50      | 24        | 20.57                | 20.77                   | 20.62                 | 22                  | 0        |  |  |
| 20                | 16QAM      | 50      | 50        | 20.53                | 20.75                   | 20.66                 |                     |          |  |  |
| 20                | 16QAM      | 100     | 0         | 20.54                | 20.76                   | 20.64                 |                     |          |  |  |
| 20                | 64QAM      | 1       | 0         | 20.67                | 20.82                   | 20.61                 |                     |          |  |  |
| 20                | 64QAM      | 1       | 49        | 20.59                | 20.78                   | 20.71                 | 22                  | 0        |  |  |
| 20                | 64QAM      | 1       | 99        | 20.57                | 20.73                   | 20.66                 |                     |          |  |  |
| 20                | 64QAM      | 50      | 0         | 20.58                | 20.73                   | 20.61                 |                     |          |  |  |
| 20                | 64QAM      | 50      | 24        | 20.62                | 20.81                   | 20.62                 | 22                  | 0        |  |  |
| 20                | 64QAM      | 50      | 50        | 20.61                | 20.81                   | 20.70                 |                     |          |  |  |
| 20                | 64QAM      | 100     | 0         | 20.62                | 20.79                   | 20.64                 |                     |          |  |  |
| Channel           |            |         |           | 39725                | 40173                   | 40620                 |                     |          |  |  |
| Frequency (MHz)   |            |         |           | 2503.5               | 2548.3                  | 2593                  |                     |          |  |  |
| 15                | QPSK       | 1       | 0         | 20.48                | 20.68                   | 20.43                 |                     |          |  |  |
| 15                | QPSK       | 1       | 37        | 20.31                | 20.56                   | 20.51                 | 22                  | 0        |  |  |
| 15                | QPSK       | 1       | 74        | 20.38                | 20.64                   | 20.37                 |                     |          |  |  |
| 15                | QPSK       | 36      | 0         | 20.48                | 20.57                   | 20.52                 |                     |          |  |  |
| 15                | QPSK       | 36      | 20        | 20.36                | 20.62                   | 20.36                 | 22                  | 0        |  |  |
| 15                | QPSK       | 36      | 39        | 20.34                | 20.49                   | 20.39                 |                     |          |  |  |
| 15                | QPSK       | 75      | 0         | 20.30                | 20.49                   | 20.42                 |                     |          |  |  |
| 15                | 16QAM      | 1       | 0         | 20.28                | 20.52                   | 20.45                 |                     |          |  |  |
| 15                | 16QAM      | 1       | 37        | 20.30                | 20.57                   | 20.43                 | 22                  | 0        |  |  |
| 15                | 16QAM      | 1       | 74        | 20.47                | 20.55                   | 20.37                 |                     |          |  |  |
| 15                | 16QAM      | 36      | 0         | 20.44                | 20.65                   | 20.29                 |                     |          |  |  |
| 15                | 16QAM      | 36      | 20        | 20.36                | 20.62                   | 20.43                 | 22                  | 0        |  |  |
| 15                | 16QAM      | 36      | 39        |                      |                         |                       |                     |          |  |  |



Reduced Power Mode for DSI4

| GSM850 Ant1 Default  |                           |       |       |                           |                           |       |       |                           |  |
|----------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|--|
| GSM850<br>TX Channel | Burst Average Power (dbm) |       |       | Tune-up<br>Limit<br>(dbm) | Frame-Average Power (dbm) |       |       | Tune-up<br>Limit<br>(dbm) |  |
|                      | 128                       | 188   | 251   |                           | 128                       | 188   | 251   |                           |  |
| Frequency (MHz)      | 824.2                     | 836.4 | 848.8 |                           | 824.2                     | 836.4 | 848.8 |                           |  |
| GSM 1 Tx slot        | 32.24                     | 32.41 | 32.57 | 33.50                     | 23.24                     | 23.41 | 23.57 | 24.50                     |  |
| GPRS 1 Tx slot       | 32.28                     | 32.45 | 32.63 | 33.50                     | 23.28                     | 23.49 | 23.63 | 24.50                     |  |
| GPRS 2 Tx slots      | 29.81                     | 29.88 | 30.09 | 30.50                     | 23.81                     | 23.88 | 24.09 | 24.50                     |  |
| GPRS 3 Tx slots      | 27.64                     | 27.62 | 27.83 | 28.50                     | 23.38                     | 23.36 | 23.57 | 24.24                     |  |
| GPRS 4 Tx slots      | 26.45                     | 26.74 | 26.71 | 27.50                     | 23.45                     | 23.74 | 23.71 | 24.50                     |  |
| EDGE 1 Tx slot       | 26.80                     | 26.74 | 26.75 | 28.00                     | 17.80                     | 17.74 | 17.75 | 18.00                     |  |
| EDGE 2 Tx slots      | 24.21                     | 24.12 | 24.30 | 25.00                     | 18.21                     | 18.12 | 18.30 | 19.00                     |  |
| EDGE 3 Tx slots      | 22.13                     | 22.06 | 22.08 | 23.00                     | 17.87                     | 17.80 | 17.82 | 18.74                     |  |
| EDGE 4 Tx slots      | 20.73                     | 20.78 | 20.98 | 22.00                     | 17.73                     | 17.78 | 17.98 | 18.00                     |  |

  

| GSM1900 Ant1 Default  |                           |       |        |                           |                           |       |        |                           |  |
|-----------------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|--|
| GSM1900<br>TX Channel | Burst Average Power (dbm) |       |        | Tune-up<br>Limit<br>(dbm) | Frame-Average Power (dbm) |       |        | Tune-up<br>Limit<br>(dbm) |  |
|                       | 512                       | 681   | 810    |                           | 512                       | 681   | 810    |                           |  |
| Frequency (MHz)       | 1850.2                    | 1860  | 1868.8 |                           | 1850.2                    | 1860  | 1868.8 |                           |  |
| GSM 1 Tx slot         | 28.78                     | 29.04 | 29.21  | 30.50                     | 19.78                     | 20.04 | 20.21  | 21.50                     |  |
| GPRS 1 Tx slot        | 28.78                     | 29.03 | 29.16  | 30.50                     | 19.78                     | 20.03 | 20.16  | 21.50                     |  |
| GPRS 2 Tx slots       | 26.01                     | 26.26 | 26.42  | 27.50                     | 20.01                     | 20.26 | 20.42  | 21.50                     |  |
| GPRS 3 Tx slots       | 24.28                     | 24.21 | 24.58  | 25.00                     | 19.95                     | 20.35 | 21.24  |                           |  |
| GPRS 4 Tx slots       | 23.15                     | 23.44 | 23.41  | 24.50                     | 20.15                     | 20.44 | 20.41  | 21.50                     |  |
| EDGE 1 Tx slot        | 25.84                     | 25.70 | 28.13  | 27.00                     | 16.84                     | 16.76 | 17.13  | 18.00                     |  |
| EDGE 2 Tx slots       | 22.70                     | 22.53 | 22.98  | 24.00                     | 16.70                     | 16.53 | 16.98  | 18.00                     |  |
| EDGE 3 Tx slots       | 20.97                     | 20.71 | 21.12  | 22.00                     | 16.71                     | 16.45 | 16.86  | 17.74                     |  |
| EDGE 4 Tx slots       | 20.04                     | 20.06 | 20.19  | 21.00                     | 17.04                     | 17.06 | 17.19  | 18.00                     |  |

  

| Band                               | WCDMA II Ant1 Default |       |        |                           | WCDMA IV Ant1 Default |        |        |                           | WCDMA V Ant1 Default |       |       |                           |
|------------------------------------|-----------------------|-------|--------|---------------------------|-----------------------|--------|--------|---------------------------|----------------------|-------|-------|---------------------------|
|                                    | WCDMA II              |       |        | Tune-up<br>Limit<br>(dbm) | WCDMA IV              |        |        | Tune-up<br>Limit<br>(dbm) | WCDMA V              |       |       | Tune-up<br>Limit<br>(dbm) |
| Rx Channel                         | 9902                  | 9900  | 9938   |                           | 1312                  | 1513   | 1513   |                           | 4392                 | 4402  | 4458  |                           |
| Frequency (MHz)                    | 1852.4                | 1860  | 1907.8 |                           | 1712.4                | 1732.6 | 1752.8 |                           | 4367                 | 4407  | 4458  |                           |
| 3GPP Rel 99 AMR 12.2kbps           | 23.46                 | 23.58 | 23.54  | 25.00                     | 23.54                 | 23.71  | 23.58  | 25.00                     | 23.55                | 23.68 | 23.61 | 25.00                     |
| 3GPP Rel 99 RMC 12.2kbps           | 23.54                 | 23.65 | 23.64  | 25.00                     | 23.76                 | 23.77  | 23.67  | 25.00                     | 23.94                | 23.68 | 23.65 | 25.00                     |
| 3GPP Rel 6 HSDPA Subtest-1         | 22.48                 | 22.55 | 22.53  | 24.00                     | 22.64                 | 22.79  | 22.75  | 24.00                     | 22.68                | 22.75 | 22.71 | 24.00                     |
| 3GPP Rel 6 HSDPA Subtest-2         | 22.50                 | 22.53 | 22.41  | 24.00                     | 22.59                 | 22.70  | 22.64  | 24.00                     | 22.63                | 22.68 | 22.66 | 24.00                     |
| 3GPP Rel 6 HSDPA Subtest-3         | 21.95                 | 22.08 | 22.08  | 23.50                     | 22.15                 | 22.25  | 22.15  | 23.50                     | 22.15                | 22.19 | 22.19 | 23.50                     |
| 3GPP Rel 6 HSDPA Subtest-4         | 21.93                 | 22.05 | 21.93  | 23.50                     | 22.13                 | 22.19  | 22.13  | 23.50                     | 22.12                | 22.21 | 22.11 | 23.50                     |
| 3GPP Rel 6 DC-HSDPA Subtest-1      | 22.42                 | 22.50 | 22.51  | 24.00                     | 22.68                 | 22.69  | 22.60  | 24.00                     | 22.63                | 22.68 | 22.68 | 24.00                     |
| 3GPP Rel 6 DC-HSDPA Subtest-2      | 22.41                 | 22.45 | 22.41  | 24.00                     | 22.57                 | 22.65  | 22.63  | 24.00                     | 22.54                | 22.58 | 22.53 | 24.00                     |
| 3GPP Rel 6 DC-HSDPA Subtest-3      | 21.92                 | 22.05 | 21.98  | 23.50                     | 22.05                 | 22.20  | 22.05  | 23.50                     | 22.05                | 22.05 | 22.03 | 23.50                     |
| 3GPP Rel 6 DC-HSDPA Subtest-4      | 21.87                 | 21.99 | 21.81  | 23.50                     | 22.01                 | 22.08  | 22.08  | 23.50                     | 22.00                | 22.14 | 22.04 | 23.50                     |
| 3GPP Rel 6 HSUPA Subtest-1         | 22.38                 | 22.41 | 22.39  | 24.00                     | 22.47                 | 22.60  | 22.57  | 24.00                     | 22.49                | 22.82 | 22.80 | 24.00                     |
| 3GPP Rel 6 HSUPA Subtest-2         | 20.49                 | 20.61 | 20.55  | 22.00                     | 20.64                 | 20.71  | 20.62  | 22.00                     | 20.69                | 20.77 | 20.61 | 22.00                     |
| 3GPP Rel 6 HSUPA Subtest-3         | 21.58                 | 21.68 | 21.56  | 23.00                     | 21.72                 | 21.81  | 21.76  | 23.00                     | 21.72                | 21.78 | 21.75 | 23.00                     |
| 3GPP Rel 6 HSUPA Subtest-4         | 20.38                 | 20.55 | 20.38  | 22.00                     | 20.55                 | 20.68  | 20.58  | 22.00                     | 20.59                | 20.69 | 20.60 | 22.00                     |
| 3GPP Rel 6 HSUPA Subtest-5         | 22.39                 | 22.47 | 22.38  | 24.00                     | 22.58                 | 22.65  | 22.57  | 24.00                     | 22.59                | 22.63 | 22.64 | 24.00                     |
| 3GPP Rel 7 HSPA+ (16QAM) Subtest-1 | 19.98                 | 20.13 | 20.08  | 21.50                     | 20.22                 | 20.34  | 20.28  | 21.50                     | 20.16                | 20.38 | 20.20 | 21.50                     |



| Band 2 Ant1 Default |            |         |           |                     |                        |                      |                     |          |  |  |
|---------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|--|
| BW (MHz)            | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Turn-up limit (dBm) | MPR (dB) |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 20                  | QPSK       | 1       | 0         | 24.14               | 24.27                  | 24.05                |                     |          |  |  |
| 20                  | QPSK       | 1       | 49        | 24.05               | 24.18                  | 23.90                | 25.5                | 0        |  |  |
| 20                  | QPSK       | 1       | 99        | 24.01               | 24.24                  | 23.97                |                     |          |  |  |
| 20                  | QPSK       | 50      | 0         | 23.18               | 23.25                  | 23.16                |                     |          |  |  |
| 20                  | QPSK       | 50      | 24        | 23.04               | 23.21                  | 23.04                | 24.5                | 1        |  |  |
| 20                  | QPSK       | 50      | 60        | 23.05               | 23.11                  | 23.08                |                     |          |  |  |
| 20                  | QPSK       | 100     | 0         | 23.20               | 23.26                  | 23.13                |                     |          |  |  |
| 20                  | 16QAM      | 1       | 0         | 22.99               | 23.03                  | 22.96                |                     |          |  |  |
| 20                  | 16QAM      | 1       | 49        | 22.98               | 22.93                  | 22.91                | 24.5                | 1        |  |  |
| 20                  | 16QAM      | 1       | 99        | 22.89               | 22.88                  | 22.84                |                     |          |  |  |
| 20                  | 16QAM      | 50      | 0         | 22.19               | 22.33                  | 22.22                |                     |          |  |  |
| 20                  | 16QAM      | 50      | 24        | 22.05               | 22.26                  | 22.11                |                     |          |  |  |
| 20                  | 16QAM      | 50      | 60        | 22.09               | 22.26                  | 22.13                | 23.5                | 2        |  |  |
| 20                  | 16QAM      | 100     | 0         | 22.19               | 22.25                  | 22.11                |                     |          |  |  |
| 20                  | 64QAM      | 1       | 0         | 22.04               | 22.15                  | 22.05                |                     |          |  |  |
| 20                  | 64QAM      | 1       | 49        | 21.98               | 22.11                  | 21.97                | 23.5                | 2        |  |  |
| 20                  | 64QAM      | 1       | 99        | 21.83               | 22.01                  | 22.00                |                     |          |  |  |
| 20                  | 64QAM      | 50      | 0         | 21.18               | 21.32                  | 21.20                |                     |          |  |  |
| 20                  | 64QAM      | 50      | 24        | 21.14               | 21.21                  | 21.12                | 22.5                | 3        |  |  |
| 20                  | 64QAM      | 50      | 60        | 21.11               | 21.24                  | 21.10                |                     |          |  |  |
| 20                  | 64QAM      | 100     | 0         | 21.01               | 21.11                  | 21.05                |                     |          |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 15                  | QPSK       | 1       | 0         | 24.06               | 24.22                  | 23.96                |                     |          |  |  |
| 15                  | QPSK       | 1       | 37        | 23.83               | 24.15                  | 23.79                | 25.5                | 0        |  |  |
| 15                  | QPSK       | 1       | 74        | 23.80               | 24.19                  | 23.78                |                     |          |  |  |
| 15                  | QPSK       | 36      | 0         | 23.06               | 23.19                  | 23.07                |                     |          |  |  |
| 15                  | QPSK       | 36      | 20        | 22.92               | 22.89                  | 22.97                | 24.5                | 1        |  |  |
| 15                  | QPSK       | 36      | 39        | 23.01               | 22.92                  | 22.97                |                     |          |  |  |
| 15                  | QPSK       | 75      | 0         | 23.04               | 23.22                  | 23.07                |                     |          |  |  |
| 15                  | 16QAM      | 1       | 0         | 22.28               | 22.48                  | 22.83                |                     |          |  |  |
| 15                  | 16QAM      | 1       | 37        | 22.93               | 22.74                  | 22.87                | 24.5                | 1        |  |  |
| 15                  | 16QAM      | 1       | 74        | 22.86               | 22.81                  | 22.76                |                     |          |  |  |
| 15                  | 16QAM      | 36      | 0         | 22.11               | 22.29                  | 22.08                |                     |          |  |  |
| 15                  | 16QAM      | 36      | 20        | 21.97               | 22.15                  | 22.05                | 23.5                | 2        |  |  |
| 15                  | 16QAM      | 36      | 39        | 21.89               | 22.14                  | 21.95                |                     |          |  |  |
| 15                  | 16QAM      | 75      | 0         | 22.04               | 22.22                  | 21.93                |                     |          |  |  |
| 15                  | 16QAM      | 75      | 0         | 21.87               | 21.98                  | 21.91                | 23.5                | 2        |  |  |
| 15                  | 64QAM      | 1       | 37        | 21.89               | 22.00                  | 21.79                |                     |          |  |  |
| 15                  | 64QAM      | 1       | 74        | 21.77               | 21.83                  | 21.85                |                     |          |  |  |
| 15                  | 64QAM      | 36      | 0         | 21.00               | 21.23                  | 21.11                |                     |          |  |  |
| 15                  | 64QAM      | 36      | 20        | 20.92               | 21.16                  | 21.03                | 22.5                | 3        |  |  |
| 15                  | 64QAM      | 36      | 39        | 21.00               | 21.05                  | 20.95                |                     |          |  |  |
| 15                  | 64QAM      | 75      | 0         | 20.90               | 20.98                  | 20.98                |                     |          |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 10                  | QPSK       | 1       | 0         | 24.01               | 24.20                  | 23.96                |                     |          |  |  |
| 10                  | QPSK       | 1       | 25        | 23.87               | 24.09                  | 23.87                | 25.5                | 0        |  |  |
| 10                  | QPSK       | 1       | 49        | 23.98               | 24.10                  | 23.89                |                     |          |  |  |
| 10                  | QPSK       | 25      | 0         | 23.14               | 23.07                  | 22.98                |                     |          |  |  |
| 10                  | QPSK       | 25      | 12        | 22.95               | 22.96                  | 22.92                | 24.5                | 1        |  |  |
| 10                  | QPSK       | 25      | 25        | 22.98               | 23.00                  | 22.93                |                     |          |  |  |
| 10                  | QPSK       | 50      | 0         | 22.98               | 23.13                  | 23.06                |                     |          |  |  |
| 10                  | 16QAM      | 1       | 0         | 22.78               | 22.92                  | 22.89                |                     |          |  |  |
| 10                  | 16QAM      | 1       | 25        | 22.83               | 22.83                  | 22.81                | 24.5                | 1        |  |  |
| 10                  | 16QAM      | 1       | 49        | 22.78               | 22.72                  | 22.71                |                     |          |  |  |
| 10                  | 16QAM      | 25      | 0         | 22.01               | 22.22                  | 22.19                |                     |          |  |  |
| 10                  | 16QAM      | 25      | 12        | 21.92               | 22.06                  | 21.96                | 23.5                | 2        |  |  |
| 10                  | 16QAM      | 25      | 25        | 21.95               | 22.10                  | 22.05                |                     |          |  |  |
| 10                  | 16QAM      | 50      | 0         | 22.03               | 22.06                  | 22.04                |                     |          |  |  |
| 10                  | 64QAM      | 1       | 0         | 21.88               | 21.95                  | 21.88                |                     |          |  |  |
| 10                  | 64QAM      | 1       | 25        | 21.87               | 21.99                  | 21.80                | 23.5                | 2        |  |  |
| 10                  | 64QAM      | 1       | 49        | 21.75               | 21.97                  | 21.80                |                     |          |  |  |
| 10                  | 64QAM      | 25      | 0         | 21.26               | 21.35                  | 21.07                |                     |          |  |  |
| 10                  | 64QAM      | 25      | 12        | 20.95               | 21.05                  | 20.92                | 22.5                | 3        |  |  |
| 10                  | 64QAM      | 25      | 25        | 20.95               | 21.07                  | 20.98                |                     |          |  |  |
| 10                  | 64QAM      | 50      | 0         | 20.92               | 20.97                  | 20.83                |                     |          |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 5                   | QPSK       | 1       | 0         | 24.03               | 24.12                  | 23.92                |                     |          |  |  |
| 5                   | QPSK       | 1       | 12        | 23.84               | 24.13                  | 23.83                | 25.5                | 0        |  |  |
| 5                   | QPSK       | 1       | 24        | 23.82               | 24.20                  | 23.85                |                     |          |  |  |
| 5                   | QPSK       | 12      | 0         | 23.13               | 23.09                  | 23.13                |                     |          |  |  |
| 5                   | QPSK       | 12      | 7         | 22.85               | 22.93                  | 22.99                | 24.5                | 1        |  |  |
| 5                   | QPSK       | 12      | 13        | 22.88               | 23.13                  | 22.93                |                     |          |  |  |
| 5                   | QPSK       | 25      | 0         | 23.00               | 23.06                  | 23.00                |                     |          |  |  |
| 5                   | 16QAM      | 1       | 0         | 22.28               | 22.48                  | 22.81                |                     |          |  |  |
| 5                   | 16QAM      | 1       | 12        | 22.93               | 22.76                  | 22.82                | 24.5                | 1        |  |  |
| 5                   | 16QAM      | 1       | 24        | 22.85               | 22.69                  | 22.77                |                     |          |  |  |
| 5                   | 16QAM      | 12      | 0         | 22.03               | 22.25                  | 22.03                |                     |          |  |  |
| 5                   | 16QAM      | 12      | 7         | 21.95               | 22.09                  | 22.06                | 23.5                | 2        |  |  |
| 5                   | 16QAM      | 12      | 13        | 21.90               | 22.06                  | 22.04                |                     |          |  |  |
| 5                   | 16QAM      | 25      | 0         | 22.06               | 22.16                  | 21.94                |                     |          |  |  |
| 5                   | 16QAM      | 25      | 0         | 22.00               | 22.10                  | 21.90                | 23.5                | 2        |  |  |
| 5                   | 64QAM      | 1       | 12        | 21.76               | 21.98                  | 21.80                |                     |          |  |  |
| 5                   | 64QAM      | 1       | 24        | 21.77               | 21.85                  | 21.91                |                     |          |  |  |
| 5                   | 64QAM      | 12      | 0         | 20.97               | 21.27                  | 21.12                |                     |          |  |  |
| 5                   | 64QAM      | 12      | 7         | 20.99               | 21.15                  | 21.06                | 22.5                | 3        |  |  |
| 5                   | 64QAM      | 12      | 13        | 21.04               | 21.04                  | 20.90                |                     |          |  |  |
| 5                   | 64QAM      | 25      | 0         | 20.92               | 20.90                  | 20.99                |                     |          |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 3                   | QPSK       | 1       | 0         | 24.02               | 24.12                  | 23.90                |                     |          |  |  |
| 3                   | QPSK       | 1       | 8         | 23.93               | 24.11                  | 23.86                | 25.5                | 0        |  |  |
| 3                   | QPSK       | 1       | 14        | 23.92               | 24.17                  | 23.87                |                     |          |  |  |
| 3                   | QPSK       | 8       | 0         | 22.98               | 23.12                  | 23.06                |                     |          |  |  |
| 3                   | QPSK       | 8       | 4         | 22.93               | 23.02                  | 22.98                | 24.5                | 1        |  |  |
| 3                   | QPSK       | 8       | 7         | 22.83               | 22.96                  | 22.88                |                     |          |  |  |
| 3                   | QPSK       | 15      | 0         | 23.10               | 23.11                  | 23.05                |                     |          |  |  |
| 3                   | 16QAM      | 1       | 0         | 22.84               | 22.84                  | 22.83                |                     |          |  |  |
| 3                   | 16QAM      | 1       | 8         | 22.86               | 22.84                  | 22.84                | 24.5                | 1        |  |  |
| 3                   | 16QAM      | 8       | 0         | 22.08               | 22.16                  | 22.14                |                     |          |  |  |
| 3                   | 16QAM      | 8       | 4         | 21.85               | 22.12                  | 22.00                | 23.5                | 2        |  |  |
| 3                   | 16QAM      | 8       | 7         | 21.95               | 22.18                  | 22.03                |                     |          |  |  |
| 3                   | 16QAM      | 15      | 0         | 21.99               | 22.11                  | 21.92                |                     |          |  |  |
| 3                   | 64QAM      | 1       | 0         | 21.98               | 21.99                  | 21.84                |                     |          |  |  |
| 3                   | 64QAM      | 1       | 8         | 21.82               | 21.99                  | 21.83                | 23.5                | 2        |  |  |
| 3                   | 64QAM      | 1       | 14        | 21.91               | 21.93                  | 21.84                |                     |          |  |  |
| 3                   | 64QAM      | 8       | 0         | 21.12               | 21.20                  | 21.02                |                     |          |  |  |
| 3                   | 64QAM      | 8       | 4         | 20.93               | 21.16                  | 21.01                | 22.5                | 3        |  |  |
| 3                   | 64QAM      | 8       | 7         | 20.94               | 21.02                  | 21.06                |                     |          |  |  |
| 3                   | 64QAM      | 15      | 0         | 20.97               | 20.90                  | 20.91                |                     |          |  |  |
| Channel             |            |         |           |                     |                        |                      |                     |          |  |  |
| Frequency (MHz)     |            |         |           |                     |                        |                      |                     |          |  |  |
| 1.4                 | QPSK       | 1       | 0         | 23.93               | 24.07                  | 23.89                |                     |          |  |  |
| 1.4                 | QPSK       | 1       | 3         | 23.96               | 24.13                  | 23.71                | 25.5                | 0        |  |  |
| 1.4                 | QPSK       | 1       | 5         | 23.94               | 24.02                  | 23.90                |                     |          |  |  |
| 1.4                 | QPSK       | 3       | 0         | 24.03               | 24.05                  | 23.83                |                     |          |  |  |
| 1.4                 | QPSK       | 3       | 1         | 24.01               | 23.97                  | 23.79                |                     |          |  |  |
| 1.4                 | QPSK       | 3       | 3         | 23.86               | 24.07                  | 23.91                | 24.5                | 1        |  |  |
| 1.4                 | QPSK       | 6       | 0         | 23.08               | 23.14                  | 23.09                |                     |          |  |  |
| 1.4                 | 16QAM      | 1       | 0         | 23.01               | 23.02                  | 22.99                |                     |          |  |  |
| 1.4                 | 16QAM      | 1       | 3         | 22.98               | 23.03                  | 22.94                | 24.5                | 1        |  |  |
| 1.4                 | 16QAM      | 1       | 5         | 23.00               | 23.11                  | 23.08                |                     |          |  |  |
| 1.4                 | 16QAM      | 3       | 0         | 22.01               | 22.04                  | 22.88                |                     |          |  |  |
| 1.4                 | 16QAM      | 3       | 1         | 22.74               | 22.71                  | 22.71                | 24.5                | 1        |  |  |
| 1.4                 | 16QAM      | 3       | 3         | 22.81               | 22.80                  | 22.82                |                     |          |  |  |
| 1.4                 | 16QAM      | 6       | 0         | 22.09               | 22.20                  | 22.05                | 23.5                | 2        |  |  |
| 1.4                 | 64QAM      | 1       | 0         | 21.89               | 22.20                  | 22.03                |                     |          |  |  |
| 1.4                 | 64QAM      | 1       | 3         | 21.97               | 22.19                  | 22.01                |                     |          |  |  |
| 1.4                 | 64QAM      | 1       | 5         | 22.06               | 22.09                  | 21.91                | 23.5                | 2        |  |  |
| 1.4                 | 64QAM      | 3       | 0         | 22.01               | 21.96                  | 21.87                |                     |          |  |  |
| 1.4                 | 64QAM      | 3       | 1         | 21.88               | 22.08                  | 22.05                |                     |          |  |  |
| 1.4                 | 64QAM      | 3       | 3         | 22.02               | 22.04                  | 22.08                | 22.5                | 3        |  |  |
| 1.4                 | 64QAM      | 6       | 0         | 20.98               | 20.99                  | 20.98                |                     |          |  |  |

| Band 4 Ant1 Default |  |  |  |  |  |  |  |  |  |  |
|---------------------|--|--|--|--|--|--|--|--|--|--|
|---------------------|--|--|--|--|--|--|--|--|--|--|

| Band 13 Ant1 Default |             |         |           |                       |                          |                        |                     |          |  |  |
|----------------------|-------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]             | Modulat ion | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel              |             |         |           | 23259                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |             |         |           | 782                   |                          |                        |                     |          |  |  |
| 10                   | QPSK        | 1       | 0         | 24.34                 | 24.19                    | 24.13                  |                     |          |  |  |
| 10                   | QPSK        | 1       | 25        | 24.31                 |                          |                        | 25.5                | 0        |  |  |
| 10                   | QPSK        | 1       | 49        | 24.23                 |                          |                        |                     |          |  |  |
| 10                   | QPSK        | 25      | 0         | 23.31                 |                          |                        |                     |          |  |  |
| 10                   | QPSK        | 25      | 12        | 23.16                 |                          |                        | 24.5                | 1        |  |  |
| 10                   | QPSK        | 25      | 25        | 23.27                 |                          |                        |                     |          |  |  |
| 10                   | QPSK        | 50      | 0         | 23.32                 |                          |                        |                     |          |  |  |
| 10                   | 16QAM       | 1       | 0         | 23.31                 |                          |                        |                     |          |  |  |
| 10                   | 16QAM       | 1       | 25        | 23.18                 |                          |                        | 24.5                | 1        |  |  |
| 10                   | 16QAM       | 1       | 49        | 23.28                 |                          |                        |                     |          |  |  |
| 10                   | 16QAM       | 25      | 0         | 22.31                 |                          |                        |                     |          |  |  |
| 10                   | 16QAM       | 25      | 12        | 22.17                 |                          |                        | 23.5                | 2        |  |  |
| 10                   | 16QAM       | 25      | 25        | 22.26                 |                          |                        |                     |          |  |  |
| 10                   | 16QAM       | 50      | 0         | 22.36                 |                          |                        |                     |          |  |  |
| 10                   | 64QAM       | 1       | 0         | 22.23                 |                          |                        |                     |          |  |  |
| 10                   | 64QAM       | 1       | 25        | 22.10                 |                          |                        | 23.5                | 2        |  |  |
| 10                   | 64QAM       | 1       | 49        | 22.20                 |                          |                        |                     |          |  |  |
| 10                   | 64QAM       | 25      | 0         | 21.37                 |                          |                        |                     |          |  |  |
| 10                   | 64QAM       | 25      | 12        | 21.31                 |                          |                        | 22.5                | 3        |  |  |
| 10                   | 64QAM       | 25      | 25        | 21.26                 |                          |                        |                     |          |  |  |
| 10                   | 64QAM       | 50      | 0         | 21.29                 |                          |                        |                     |          |  |  |
| Channel              |             |         |           | 23205                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |             |         |           | 779.5                 |                          |                        |                     |          |  |  |
| 5                    | QPSK        | 1       | 0         | 24.15                 | 24.19                    | 24.13                  |                     |          |  |  |
| 5                    | QPSK        | 1       | 12        | 24.20                 | 24.14                    | 24.13                  |                     |          |  |  |
| 5                    | QPSK        | 1       | 24        | 24.08                 | 24.19                    | 24.07                  |                     |          |  |  |
| 5                    | QPSK        | 12      | 0         | 23.24                 | 23.13                    | 23.27                  |                     |          |  |  |
| 5                    | QPSK        | 12      | 7         | 22.97                 | 23.10                    | 23.07                  | 24.5                | 1        |  |  |
| 5                    | QPSK        | 12      | 13        | 23.21                 | 23.18                    | 23.24                  |                     |          |  |  |
| 5                    | QPSK        | 25      | 0         | 23.19                 | 23.10                    | 23.28                  |                     |          |  |  |
| 5                    | 16QAM       | 1       | 0         | 23.12                 | 23.12                    | 23.27                  |                     |          |  |  |
| 5                    | 16QAM       | 1       | 12        | 22.98                 | 23.15                    | 23.15                  | 24.5                | 1        |  |  |
| 5                    | 16QAM       | 1       | 24        | 23.23                 | 23.21                    | 23.12                  |                     |          |  |  |
| 5                    | 16QAM       | 12      | 0         | 22.14                 | 22.10                    | 22.20                  |                     |          |  |  |
| 5                    | 16QAM       | 12      | 7         | 22.14                 | 22.11                    | 21.99                  | 23.5                | 2        |  |  |
| 5                    | 16QAM       | 12      | 13        | 22.16                 | 22.22                    | 22.12                  |                     |          |  |  |
| 5                    | 16QAM       | 25      | 0         | 22.31                 | 22.30                    | 22.31                  |                     |          |  |  |
| 5                    | 64QAM       | 1       | 0         | 22.02                 | 22.06                    | 22.20                  |                     |          |  |  |
| 5                    | 64QAM       | 1       | 12        | 21.96                 | 22.03                    | 21.96                  | 23.5                | 2        |  |  |
| 5                    | 64QAM       | 1       | 24        | 22.15                 | 22.04                    | 22.11                  |                     |          |  |  |
| 5                    | 64QAM       | 12      | 0         | 21.24                 | 21.29                    | 21.32                  |                     |          |  |  |
| 5                    | 64QAM       | 12      | 7         | 21.22                 | 21.09                    | 21.21                  | 22.5                | 3        |  |  |
| 5                    | 64QAM       | 12      | 13        | 21.09                 | 21.14                    | 21.12                  |                     |          |  |  |
| 5                    | 64QAM       | 25      | 0         | 21.23                 | 21.23                    | 21.19                  |                     |          |  |  |

| Band 26 Ant1 Default |             |         |           |                       |                          |                        |                     |          |  |
|----------------------|-------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]             | Modulat ion | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel              |             |         |           | 26765                 |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 821.5                 |                          |                        |                     |          |  |
| 15                   | QPSK        | 1       | 0         | 24.02                 | 24.41                    | 24.19                  |                     |          |  |
| 15                   | QPSK        | 1       | 37        | 23.92                 | 24.29                    | 24.14                  | 25.5                | 0        |  |
| 15                   | QPSK        | 1       | 74        | 23.97                 | 24.28                    | 24.08                  |                     |          |  |
| 15                   | QPSK        | 36      | 0         | 22.98                 | 23.11                    | 23.06                  |                     |          |  |
| 15                   | QPSK        | 36      | 20        | 22.97                 | 23.00                    | 23.00                  | 24.5                | 1        |  |
| 15                   | QPSK        | 36      | 39        | 22.86                 | 22.97                    | 23.01                  |                     |          |  |
| 15                   | QPSK        | 75      | 0         | 23.01                 | 23.15                    | 23.14                  |                     |          |  |
| 15                   | 16QAM       | 1       | 0         | 23.02                 | 23.17                    | 23.11                  |                     |          |  |
| 15                   | 16QAM       | 1       | 37        | 22.87                 | 23.03                    | 23.06                  | 24.5                | 1        |  |
| 15                   | 16QAM       | 1       | 74        | 22.93                 | 23.08                    | 23.04                  |                     |          |  |
| 15                   | 16QAM       | 36      | 0         | 22.02                 | 22.20                    | 22.00                  |                     |          |  |
| 15                   | 16QAM       | 36      | 20        | 21.91                 | 22.12                    | 21.95                  | 23.5                | 2        |  |
| 15                   | 16QAM       | 36      | 39        | 21.94                 | 22.16                    | 21.96                  |                     |          |  |
| 15                   | 16QAM       | 75      | 0         | 21.87                 | 22.17                    | 22.02                  |                     |          |  |
| 15                   | 64QAM       | 1       | 0         | 22.02                 | 22.12                    | 22.13                  |                     |          |  |
| 15                   | 64QAM       | 1       | 37        | 21.92                 | 22.00                    | 22.02                  | 23.5                | 2        |  |
| 15                   | 64QAM       | 1       | 74        | 21.99                 | 22.04                    | 22.05                  |                     |          |  |
| 15                   | 64QAM       | 36      | 0         | 20.78                 | 20.94                    | 20.85                  |                     |          |  |
| 15                   | 64QAM       | 36      | 39        | 20.69                 | 21.04                    | 20.90                  | 22.5                | 3        |  |
| 15                   | 64QAM       | 75      | 0         | 20.88                 | 21.08                    | 21.08                  |                     |          |  |
| Channel              |             |         |           | 26876                 |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 819                   |                          |                        |                     |          |  |
| 10                   | QPSK        | 1       | 0         | 23.86                 | 24.38                    | 23.98                  |                     |          |  |
| 10                   | QPSK        | 1       | 25        | 23.80                 | 24.24                    | 23.92                  | 25.5                | 0        |  |
| 10                   | QPSK        | 1       | 49        | 23.89                 | 24.10                    | 23.92                  |                     |          |  |
| 10                   | QPSK        | 25      | 0         | 22.89                 | 22.98                    | 23.00                  |                     |          |  |
| 10                   | QPSK        | 25      | 12        | 22.67                 | 22.85                    | 22.82                  | 24.5                | 1        |  |
| 10                   | QPSK        | 25      | 25        | 22.81                 | 22.85                    | 22.79                  |                     |          |  |
| 10                   | QPSK        | 50      | 0         | 22.92                 | 23.11                    | 23.11                  |                     |          |  |
| 10                   | 16QAM       | 1       | 0         | 22.99                 | 22.85                    | 22.92                  |                     |          |  |
| 10                   | 16QAM       | 1       | 25        | 22.72                 | 22.82                    | 22.87                  | 24.5                | 1        |  |
| 10                   | 16QAM       | 1       | 49        | 22.89                 | 22.93                    | 22.94                  |                     |          |  |
| 10                   | 16QAM       | 25      | 0         | 21.83                 | 22.15                    | 21.96                  |                     |          |  |
| 10                   | 16QAM       | 25      | 12        | 21.70                 | 22.10                    | 21.91                  | 23.5                | 2        |  |
| 10                   | 16QAM       | 25      | 25        | 21.78                 | 22.11                    | 21.85                  |                     |          |  |
| 10                   | 16QAM       | 50      | 0         | 21.80                 | 22.09                    | 21.98                  |                     |          |  |
| 10                   | 64QAM       | 1       | 0         | 21.91                 | 22.05                    | 21.94                  |                     |          |  |
| 10                   | 64QAM       | 1       | 25        | 21.89                 | 21.85                    | 21.90                  | 23.5                | 2        |  |
| 10                   | 64QAM       | 1       | 49        | 21.78                 | 22.02                    | 21.93                  |                     |          |  |
| 10                   | 64QAM       | 25      | 0         | 20.75                 | 21.04                    | 20.82                  |                     |          |  |
| 10                   | 64QAM       | 25      | 12        | 20.68                 | 20.92                    | 20.80                  | 22.5                | 3        |  |
| 10                   | 64QAM       | 25      | 25        | 20.58                 | 20.86                    | 20.73                  |                     |          |  |
| 10                   | 64QAM       | 50      | 0         | 20.60                 | 20.90                    | 20.65                  |                     |          |  |
| Channel              |             |         |           | 26715                 |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 816.5                 |                          |                        |                     |          |  |
| 5                    | QPSK        | 1       | 0         | 23.82                 | 24.26                    | 24.13                  |                     |          |  |
| 5                    | QPSK        | 1       | 12        | 23.81                 | 24.26                    | 24.08                  | 25.5                | 0        |  |
| 5                    | QPSK        | 1       | 24        | 23.83                 | 24.15                    | 23.93                  |                     |          |  |
| 5                    | QPSK        | 12      | 0         | 22.95                 | 23.03                    | 22.91                  |                     |          |  |
| 5                    | QPSK        | 12      | 7         | 22.80                 | 22.88                    | 22.90                  | 24.5                | 1        |  |
| 5                    | QPSK        | 12      | 13        | 22.78                 | 22.83                    | 22.86                  |                     |          |  |
| 5                    | QPSK        | 25      | 0         | 22.88                 | 23.04                    | 22.99                  |                     |          |  |
| 5                    | 16QAM       | 1       | 0         | 22.85                 | 23.01                    | 22.91                  |                     |          |  |
| 5                    | 16QAM       | 1       | 12        | 22.66                 | 22.93                    | 23.00                  | 24.5                | 1        |  |
| 5                    | 16QAM       | 1       | 24        | 22.82                 | 22.87                    | 23.00                  |                     |          |  |
| 5                    | 16QAM       | 12      | 0         | 21.96                 | 22.26                    | 21.80                  |                     |          |  |
| 5                    | 16QAM       | 12      | 7         | 21.74                 | 21.93                    | 21.84                  | 23.5                | 2        |  |
| 5                    | 16QAM       | 12      | 13        | 21.90                 | 21.96                    | 21.83                  |                     |          |  |
| 5                    | 16QAM       | 25      | 0         | 21.82                 | 22.03                    | 21.88                  |                     |          |  |
| 5                    | 64QAM       | 1       | 0         | 21.85                 | 21.98                    | 21.91                  |                     |          |  |
| 5                    | 64QAM       | 1       | 12        | 21.86                 | 21.95                    | 21.98                  | 23.5                | 2        |  |
| 5                    | 64QAM       | 1       | 24        | 21.92                 | 21.84                    | 22.02                  |                     |          |  |
| 5                    | 64QAM       | 12      | 0         | 20.61                 | 20.86                    | 20.85                  |                     |          |  |
| 5                    | 64QAM       | 12      | 7         | 20.69                 | 20.75                    | 20.75                  | 22.5                | 3        |  |
| 5                    | 64QAM       | 12      | 13        | 20.65                 | 20.88                    | 20.84                  |                     |          |  |
| 5                    | 64QAM       | 25      | 0         | 20.73                 | 20.99                    | 20.98                  |                     |          |  |
| Channel              |             |         |           | 26705                 |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 815.5                 |                          |                        |                     |          |  |
| 3                    | QPSK        | 1       | 0         | 23.91                 | 24.32                    | 24.00                  |                     |          |  |
| 3                    | QPSK        | 1       | 8         | 23.85                 | 24.25                    | 24.04                  | 25.5                | 0        |  |
| 3                    | QPSK        | 1       | 14        | 23.88                 | 24.17                    | 23.91                  |                     |          |  |
| 3                    | QPSK        | 8       | 0         | 22.77                 | 22.99                    | 22.85                  |                     |          |  |
| 3                    | QPSK        | 8       | 4         | 22.78                 | 22.87                    | 22.80                  | 24.5                | 1        |  |
| 3                    | QPSK        | 8       | 7         | 22.81                 | 22.88                    | 22.81                  |                     |          |  |
| 3                    | QPSK        | 15      | 0         | 22.98                 | 23.01                    | 23.06                  |                     |          |  |
| 3                    | 16QAM       | 1       | 0         | 23.00                 | 23.96                    | 23.05                  |                     |          |  |
| 3                    | 16QAM       | 1       | 8         | 22.81                 | 22.89                    | 22.91                  | 24.5                | 1        |  |
| 3                    | 16QAM       | 1       | 14        | 22.78                 | 23.05                    | 22.92                  |                     |          |  |
| 3                    | 16QAM       | 8       | 0         | 21.90                 | 22.02                    | 21.96                  |                     |          |  |
| 3                    | 16QAM       | 8       | 4         | 21.79                 | 21.91                    | 21.83                  | 23.5                | 2        |  |
| 3                    | 16QAM       | 8       | 7         | 21.76                 | 22.11                    | 21.83                  |                     |          |  |
| 3                    | 16QAM       | 15      | 0         | 21.70                 | 21.96                    | 21.87                  |                     |          |  |
| 3                    | 64QAM       | 1       | 0         | 21.87                 | 22.06                    | 22.11                  |                     |          |  |
| 3                    | 64QAM       | 1       | 8         | 21.85                 | 21.87                    | 21.82                  | 23.5                | 2        |  |
| 3                    | 64QAM       | 1       | 14        | 21.80                 | 22.02                    | 21.85                  |                     |          |  |
| 3                    | 64QAM       | 8       | 0         | 20.81                 | 21.03                    | 20.90                  |                     |          |  |
| 3                    | 64QAM       | 8       | 4         | 20.67                 | 20.82                    | 20.65                  | 22.5                | 3        |  |
| 3                    | 64QAM       | 8       | 7         | 20.47                 | 20.96                    | 20.75                  |                     |          |  |
| 3                    | 64QAM       | 15      | 0         | 20.78                 | 21.02                    | 20.68                  |                     |          |  |
| Channel              |             |         |           | 26897                 |                          |                        |                     |          |  |
| Frequency (MHz)      |             |         |           | 814.7                 |                          |                        |                     |          |  |
| 1.4                  | QPSK        | 1       | 0         | 23.93                 | 24.26                    | 23.99                  |                     |          |  |
| 1.4                  | QPSK        | 1       | 3         | 23.74                 | 24.09                    | 23.94                  | 25.5                | 0        |  |
| 1.4                  | QPSK        | 1       | 5         | 23.92                 | 24.10                    | 24.02                  |                     |          |  |
| 1.4                  | QPSK        | 3       | 0         | 23.95                 | 24.29                    | 24.03                  | </                  |          |  |

| Band 38 Ant1 Default |             |         |           |                       |                          |                        |                     |          |  |
|----------------------|-------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]             | Modulat ion | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel              |             |         |           | 3750                  | 3800                     | 38150                  |                     |          |  |
| Frequency (MHz)      |             |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20                   | QPSK        | 1       | 0         | 24.01                 | 24.12                    | 24.08                  |                     |          |  |
| 20                   | QPSK        | 1       | 49        | 23.91                 | 24.02                    | 24.01                  | 25.5                | 0        |  |
| 20                   | QPSK        | 1       | 99        | 23.86                 | 24.06                    | 23.98                  |                     |          |  |
| 20                   | QPSK        | 50      | 0         | 23.01                 | 23.11                    | 23.06                  |                     |          |  |
| 20                   | QPSK        | 50      | 24        | 22.98                 | 22.96                    | 22.98                  | 24.5                | 1        |  |
| 20                   | QPSK        | 50      | 50        | 22.86                 | 23.07                    | 22.93                  |                     |          |  |
| 20                   | QPSK        | 100     | 0         | 23.04                 | 23.09                    | 22.97                  |                     |          |  |
| 20                   | 16QAM       | 1       | 0         | 22.86                 | 23.07                    | 23.01                  |                     |          |  |
| 20                   | 16QAM       | 1       | 49        | 22.92                 | 22.83                    | 22.85                  | 24.5                | 1        |  |
| 20                   | 16QAM       | 1       | 99        | 22.77                 | 22.93                    | 22.84                  |                     |          |  |
| 20                   | 16QAM       | 50      | 0         | 22.07                 | 22.12                    | 22.06                  |                     |          |  |
| 20                   | 16QAM       | 50      | 24        | 22.04                 | 21.99                    | 22.01                  | 23.5                | 2        |  |
| 20                   | 16QAM       | 50      | 50        | 22.00                 | 22.06                    | 21.88                  |                     |          |  |
| 20                   | 16QAM       | 100     | 0         | 22.00                 | 22.11                    | 22.08                  |                     |          |  |
| 20                   | 84QAM       | 1       | 0         | 22.11                 | 22.22                    | 22.18                  |                     |          |  |
| 20                   | 84QAM       | 1       | 49        | 22.00                 | 22.12                    | 22.09                  | 23.5                | 2        |  |
| 20                   | 84QAM       | 1       | 99        | 21.87                 | 22.02                    | 22.03                  |                     |          |  |
| 20                   | 84QAM       | 50      | 0         | 21.10                 | 21.20                    | 21.15                  |                     |          |  |
| 20                   | 84QAM       | 50      | 24        | 21.01                 | 21.08                    | 21.08                  | 22.5                | 3        |  |
| 20                   | 84QAM       | 50      | 50        | 20.90                 | 21.12                    | 21.08                  |                     |          |  |
| 20                   | 84QAM       | 100     | 0         | 21.07                 | 21.19                    | 21.10                  |                     |          |  |
| Channel              |             |         |           | 37825                 | 38000                    | 38175                  |                     |          |  |
| Frequency (MHz)      |             |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |  |
| 15                   | QPSK        | 1       | 0         | 23.90                 | 23.94                    | 23.90                  |                     |          |  |
| 15                   | QPSK        | 1       | 37        | 23.88                 | 23.90                    | 23.84                  | 25.5                | 0        |  |
| 15                   | QPSK        | 1       | 74        | 23.85                 | 23.98                    | 23.82                  |                     |          |  |
| 15                   | QPSK        | 36      | 0         | 22.87                 | 22.93                    | 22.89                  |                     |          |  |
| 15                   | QPSK        | 36      | 20        | 22.92                 | 22.81                    | 22.81                  | 24.5                | 1        |  |
| 15                   | QPSK        | 36      | 39        | 22.86                 | 22.86                    | 22.87                  |                     |          |  |
| 15                   | QPSK        | 75      | 0         | 22.98                 | 22.91                    | 22.88                  |                     |          |  |
| 15                   | 16QAM       | 1       | 0         | 22.83                 | 23.02                    | 22.92                  |                     |          |  |
| 15                   | 16QAM       | 1       | 37        | 22.77                 | 22.73                    | 22.76                  | 24.5                | 1        |  |
| 15                   | 16QAM       | 1       | 74        | 22.66                 | 22.96                    | 22.73                  |                     |          |  |
| 15                   | 16QAM       | 36      | 0         | 21.94                 | 21.90                    | 21.87                  |                     |          |  |
| 15                   | 16QAM       | 36      | 20        | 21.97                 | 21.78                    | 21.86                  | 23.5                | 2        |  |
| 15                   | 16QAM       | 36      | 39        | 21.81                 | 22.02                    | 21.93                  |                     |          |  |
| 15                   | 16QAM       | 75      | 0         | 21.93                 | 22.03                    | 22.05                  |                     |          |  |
| 15                   | 84QAM       | 1       | 0         | 22.07                 | 22.08                    | 22.14                  |                     |          |  |
| 15                   | 84QAM       | 1       | 37        | 21.88                 | 21.91                    | 22.01                  | 23.5                | 2        |  |
| 15                   | 84QAM       | 1       | 74        | 21.84                 | 21.97                    | 21.84                  |                     |          |  |
| 15                   | 84QAM       | 36      | 0         | 21.01                 | 21.00                    | 21.02                  |                     |          |  |
| 15                   | 84QAM       | 36      | 20        | 20.80                 | 20.87                    | 20.90                  | 22.5                | 3        |  |
| 15                   | 84QAM       | 36      | 39        | 20.90                 | 20.91                    | 21.04                  |                     |          |  |
| 15                   | 84QAM       | 75      | 0         | 20.86                 | 21.16                    | 21.06                  |                     |          |  |
| Channel              |             |         |           | 37800                 | 38000                    | 38200                  |                     |          |  |
| Frequency (MHz)      |             |         |           | 2575                  | 2595                     | 2615                   |                     |          |  |
| 10                   | QPSK        | 1       | 0         | 23.84                 | 24.09                    |                        |                     |          |  |
| 10                   | QPSK        | 1       | 25        | 23.86                 | 23.81                    | 23.91                  | 25.5                | 0        |  |
| 10                   | QPSK        | 1       | 49        | 23.70                 | 23.86                    | 23.95                  |                     |          |  |
| 10                   | QPSK        | 25      | 0         | 22.82                 | 22.96                    | 22.99                  |                     |          |  |
| 10                   | QPSK        | 25      | 12        | 22.77                 | 22.86                    | 22.92                  | 24.5                | 1        |  |
| 10                   | QPSK        | 25      | 25        | 22.81                 | 23.00                    | 22.79                  |                     |          |  |
| 10                   | QPSK        | 50      | 0         | 22.94                 | 22.94                    | 22.80                  |                     |          |  |
| 10                   | 16QAM       | 1       | 0         | 22.80                 | 23.01                    | 22.85                  |                     |          |  |
| 10                   | 16QAM       | 1       | 25        | 22.83                 | 22.73                    | 22.81                  | 24.5                | 1        |  |
| 10                   | 16QAM       | 1       | 49        | 22.84                 | 22.86                    | 22.68                  |                     |          |  |
| 10                   | 16QAM       | 25      | 0         | 21.90                 | 22.06                    | 22.03                  |                     |          |  |
| 10                   | 16QAM       | 25      | 12        | 22.00                 | 21.91                    | 21.81                  | 23.5                | 2        |  |
| 10                   | 16QAM       | 25      | 25        | 21.85                 | 21.85                    | 21.88                  |                     |          |  |
| 10                   | 16QAM       | 50      | 0         | 21.85                 | 21.94                    | 21.97                  |                     |          |  |
| 10                   | 84QAM       | 1       | 0         | 22.07                 | 22.11                    | 22.08                  | 23.5                | 2        |  |
| 10                   | 84QAM       | 1       | 25        | 21.95                 | 22.08                    | 22.01                  |                     |          |  |
| 10                   | 84QAM       | 1       | 49        | 21.88                 | 21.80                    | 21.83                  |                     |          |  |
| 10                   | 84QAM       | 25      | 0         | 21.02                 | 21.11                    | 21.08                  | 22.5                | 3        |  |
| 10                   | 84QAM       | 25      | 12        | 20.95                 | 20.88                    | 21.05                  |                     |          |  |
| 10                   | 84QAM       | 25      | 25        | 20.87                 | 21.09                    | 21.06                  |                     |          |  |
| 10                   | 84QAM       | 50      | 0         | 21.01                 | 21.11                    | 20.90                  |                     |          |  |
| Channel              |             |         |           | 37775                 | 38000                    | 38225                  |                     |          |  |
| Frequency (MHz)      |             |         |           | 2572.5                | 2595                     | 2617.5                 |                     |          |  |
| 5                    | QPSK        | 1       | 0         | 23.98                 | 24.07                    | 24.04                  |                     |          |  |
| 5                    | QPSK        | 1       | 12        | 23.86                 | 23.94                    | 23.95                  | 25.5                | 0        |  |
| 5                    | QPSK        | 1       | 24        | 23.87                 | 23.87                    | 23.85                  |                     |          |  |
| 5                    | QPSK        | 12      | 0         | 22.97                 | 23.00                    | 22.96                  |                     |          |  |
| 5                    | QPSK        | 12      | 7         | 22.88                 | 22.85                    | 22.87                  | 24.5                | 1        |  |
| 5                    | QPSK        | 12      | 13        | 22.73                 | 22.89                    | 22.87                  |                     |          |  |
| 5                    | QPSK        | 25      | 0         | 22.80                 | 22.94                    | 22.83                  |                     |          |  |
| 5                    | 16QAM       | 1       | 0         | 22.79                 | 22.99                    | 22.90                  |                     |          |  |
| 5                    | 16QAM       | 1       | 12        | 22.74                 | 22.81                    | 22.69                  | 24.5                | 1        |  |
| 5                    | 16QAM       | 1       | 24        | 22.64                 | 22.74                    | 22.72                  |                     |          |  |
| 5                    | 16QAM       | 12      | 0         | 22.01                 | 21.91                    | 21.94                  |                     |          |  |
| 5                    | 16QAM       | 12      | 7         | 21.88                 | 21.81                    | 21.97                  | 23.5                | 2        |  |
| 5                    | 16QAM       | 12      | 13        | 21.81                 | 22.03                    | 21.83                  |                     |          |  |
| 5                    | 16QAM       | 25      | 0         | 21.85                 | 21.98                    | 21.83                  |                     |          |  |
| 5                    | 84QAM       | 1       | 0         | 22.07                 | 22.01                    | 22.03                  | 23.5                | 2        |  |
| 5                    | 84QAM       | 1       | 12        | 21.81                 | 21.97                    | 21.89                  |                     |          |  |
| 5                    | 84QAM       | 1       | 24        | 21.72                 | 21.89                    | 21.82                  |                     |          |  |
| 5                    | 84QAM       | 12      | 0         | 20.92                 | 21.17                    | 21.11                  |                     |          |  |
| 5                    | 84QAM       | 12      | 7         | 20.87                 | 21.03                    | 21.07                  | 22.5                | 3        |  |
| 5                    | 84QAM       | 12      | 13        | 20.79                 | 20.94                    | 21.05                  |                     |          |  |
| 5                    | 84QAM       | 25      | 0         | 20.86                 | 20.98                    | 20.99                  |                     |          |  |

| Band 41 Ant1 Default |             |         |           |                       |                          |                        |                               |                        |                     |          |
|----------------------|-------------|---------|-----------|-----------------------|--------------------------|------------------------|-------------------------------|------------------------|---------------------|----------|
| BW [MHz]             | Modulat ion | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High 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         | 23.91                 | 23.98                    | 24.15                  | 24.09                         | 24.06                  |                     |          |
| 20                   | QPSK        | 1       | 49        | 23.84                 | 23.85                    | 24.12                  | 24.01                         | 23.95                  | 25.5                | 0        |
| 20                   | QPSK        | 1       | 99        | 23.80                 | 23.89                    | 24.01                  | 23.97                         | 23.85                  |                     |          |
| 20                   | QPSK        | 50      | 0         | 23.04                 | 23.09                    | 23.14                  | 23.11                         | 23.09                  |                     |          |
| 20                   | QPSK        | 50      | 24        | 22.91                 | 23.00                    | 23.05                  | 23.03                         | 22.94                  | 24.5                | 1        |
| 20                   | QPSK        | 50      | 50        | 22.98                 | 22.98                    | 23.01                  | 23.04                         | 22.98                  |                     |          |
| 20                   | QPSK        | 100     | 0         | 22.95                 | 23.03                    | 23.07                  | 22.92                         | 22.98                  |                     |          |
| 20                   | 16QAM       | 1       | 0         | 23.05                 | 22.99                    | 23.10                  | 22.97                         | 22.96                  |                     |          |
| 20                   | 16QAM       | 1       | 49        | 22.93                 | 22.85                    | 23.03                  | 22.85                         | 22.87                  | 24.5                | 1        |
| 20                   | 16QAM       | 1       | 99        | 22.99                 | 22.95                    | 23.04                  | 22.91                         | 22.82                  |                     |          |
| 20                   | 16QAM       | 50      | 0         | 21.88                 | 21.94                    | 21.97                  | 21.90                         | 21.91                  |                     |          |
| 20                   | 16QAM       | 50      | 24        | 21.74                 | 21.86                    | 21.85                  | 21.75                         | 21.85                  | 23.5                | 2        |
| 20                   | 16QAM       | 50      | 50        | 21.76                 | 21.88                    | 21.88                  | 21.84                         | 21.77                  |                     |          |
| 20                   | 16QAM       | 100     | 0         | 22.00                 | 22.03                    | 22.09                  | 22.04                         | 21.98                  |                     |          |
| 20                   | 84QAM       | 1       | 0         | 22.12                 | 22.04                    | 22.18                  | 22.09                         | 22.10                  |                     |          |
| 20                   | 84QAM       | 1       | 49        | 22.08                 | 21.97                    | 22.05                  | 22.01                         | 22.04                  | 23.5                | 2        |
| 20                   | 84QAM       | 1       | 99        | 21.98                 | 21.96                    | 22.06                  | 21.97                         | 22.04                  |                     |          |
| 20                   | 84QAM       | 50      | 0         | 21.04                 | 20.99                    | 21.08                  | 20.98                         | 21.02                  |                     |          |
| 20                   | 84QAM       | 50      | 24        | 20.98                 | 20.89                    | 20.93                  | 20.95                         | 20.89                  | 22.5                | 3        |
| 20                   | 84QAM       | 50      | 50        | 20.83                 | 20.85                    | 20.93                  | 20.84                         | 20.94                  |                     |          |
| 20                   | 84QAM       | 100     | 0         | 20.98                 | 21.01                    | 21.10                  | 20.98                         | 20.98                  |                     |          |
| Channel              |             |         |           | 39725                 | 40173                    | 40620                  | 41058                         | 41515                  |                     |          |
| Frequency (MHz)      |             |         |           | 2503.5                | 2548.3                   | 2593                   | 2637.8                        | 2682.5                 |                     |          |
| 15                   | QPSK        | 1       | 0         | 23.70                 | 23.79                    | 24.06                  | 23.91                         | 23.86                  |                     |          |
| 15                   | QPSK        | 1       | 37        | 23.78                 | 23.70                    | 24.07                  | 23.81                         | 23.83                  | 26                  | 0        |
| 15                   | QPSK        | 1       | 74        | 23.61                 | 23.68                    | 23.84                  | 23.81                         | 23.77                  |                     |          |
| 15                   | QPSK        | 36      | 0         | 22.94                 | 22.92                    | 22.98                  | 23.00                         | 22.90                  |                     |          |
| 15                   | QPSK        | 36      | 20        | 22.82                 | 22.81                    | 22.89                  | 22.85                         | 22.84                  | 24.5                | 1        |
| 15                   | QPSK        | 36      | 39        | 22.91                 | 22.88                    | 22.91                  | 22.86                         | 22.86                  |                     |          |
| 15                   | QPSK        | 75      | 0         | 22.82                 | 22.82                    | 23.04                  | 22.89                         | 22.78                  |                     |          |
| 15                   | 16QAM       | 1       | 0         | 22.86                 | 22.90                    | 22.96                  | 22.89                         | 22.76                  |                     |          |
| 15                   | 16QAM       | 1       | 37        | 22.80                 | 22.82                    | 22.91                  | 22.63                         | 22.76                  | 24.5                | 1        |
| 15                   | 16QAM       | 1       | 74        | 22.84                 | 22.78                    | 22.89                  | 22.85                         | 22.84                  |                     |          |
| 15                   | 16QAM       | 36      | 0         | 21.70                 | 21.79                    | 21.88                  | 21.74                         | 21.88                  |                     |          |
| 15                   | 16QAM       | 36      | 20        | 21.52                 | 21.79                    | 21.68                  | 21.60                         | 21.                    |                     |          |



| GSM850 An4 Default   |                           |       |       |                           |                           |       |       |                           |      |
|----------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|------|
| GSM850<br>TX Channel | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |      |
|                      | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |      |
| Frequency (MHz)      | 32.2                      | 32.4  | 32.8  | 32.2                      | 32.4                      | 32.8  | 32.2  | 32.4                      | 32.8 |
| GSM 1 Tx slot        | 32.56                     | 32.47 | 32.57 | 33.50                     | 23.35                     | 23.47 | 23.57 | 24.50                     |      |
| GPRS 1 Tx slot       | 32.38                     | 32.51 | 32.58 | 33.50                     | 23.38                     | 23.51 | 23.58 | 24.50                     |      |
| GPRS 2 Tx slots      | 30.53                     | 30.42 | 30.54 | 31.00                     | 24.53                     | 24.42 | 24.54 | 25.00                     |      |
| GPRS 3 Tx slots      | 28.95                     | 28.49 | 28.31 | 28.50                     | 24.19                     | 24.23 | 24.05 | 25.24                     |      |
| GPRS 4 Tx slots      | 27.22                     | 27.15 | 27.16 | 28.00                     | 24.22                     | 24.15 | 24.16 | 25.00                     |      |
| EDGE 1 Tx slot       | 26.88                     | 26.93 | 26.91 | 28.00                     | 17.88                     | 17.93 | 17.91 | 19.00                     |      |
| EDGE 2 Tx slots      | 24.33                     | 24.31 | 24.29 | 26.50                     | 18.33                     | 18.31 | 18.29 | 19.50                     |      |
| EDGE 3 Tx slots      | 22.52                     | 22.22 | 22.17 | 24.00                     | 18.06                     | 17.98 | 17.91 | 19.74                     |      |
| EDGE 4 Tx slots      | 20.59                     | 20.68 | 20.57 | 22.00                     | 17.59                     | 17.68 | 17.57 | 19.00                     |      |

  

| GSM1900 An4 Default   |                           |       |        |                           |                           |        |        |                           |        |
|-----------------------|---------------------------|-------|--------|---------------------------|---------------------------|--------|--------|---------------------------|--------|
| GSM1900<br>TX Channel | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |        |        | Tune-up<br>Limit<br>(dBm) |        |
|                       | 512                       | 861   | 810    |                           | 512                       | 861    | 810    |                           |        |
| Frequency (MHz)       | 1850.2                    | 1880  | 1909.8 | 1850.2                    | 1880                      | 1909.8 | 1850.2 | 1880                      | 1909.8 |
| GSM 1 Tx slot         | 28.87                     | 28.98 | 29.27  | 30.00                     | 19.87                     | 19.98  | 20.27  | 21.00                     |        |
| GPRS 1 Tx slot        | 28.91                     | 29.00 | 29.31  | 30.00                     | 19.91                     | 20.00  | 20.31  | 21.00                     |        |
| GPRS 2 Tx slots       | 26.05                     | 26.45 | 26.43  | 27.50                     | 20.05                     | 20.49  | 20.43  | 21.50                     |        |
| GPRS 3 Tx slots       | 24.17                     | 24.23 | 24.59  | 25.00                     | 19.91                     | 19.97  | 20.33  | 20.74                     |        |
| GPRS 4 Tx slots       | 22.87                     | 22.77 | 23.07  | 23.50                     | 19.87                     | 19.77  | 20.07  | 20.50                     |        |
| EDGE 1 Tx slot        | 25.33                     | 25.36 | 25.73  | 26.00                     | 18.33                     | 18.36  | 18.73  | 17.00                     |        |
| EDGE 2 Tx slots       | 22.27                     | 22.39 | 22.44  | 22.50                     | 16.27                     | 16.39  | 16.44  | 16.50                     |        |
| EDGE 3 Tx slots       | 20.44                     | 20.46 | 20.42  | 20.50                     | 16.18                     | 16.20  | 16.16  | 16.24                     |        |
| EDGE 4 Tx slots       | 19.40                     | 19.33 | 19.46  | 19.50                     | 16.40                     | 16.33  | 16.46  | 16.50                     |        |

  

| Band                              | WCDMA II An4 Default |       |        | WCDMA IV An4 DS4          |        |        | WCDMA V An4 Default |                           |       |       |       |                           |
|-----------------------------------|----------------------|-------|--------|---------------------------|--------|--------|---------------------|---------------------------|-------|-------|-------|---------------------------|
|                                   | 9262                 | 9400  | 9538   | Tune-up<br>Limit<br>(dBm) | 1312   | 1413   | 1513                | Tune-up<br>Limit<br>(dBm) | 4132  | 4182  | 4233  | Tune-up<br>Limit<br>(dBm) |
| Rx Channel                        | 9662                 | 9800  | 9938   |                           | 1537   | 1638   | 1738                |                           | 4357  | 4407  | 4458  |                           |
| Frequency (MHz)                   | 1852.2               | 1869  | 1897.8 |                           | 1722.4 | 1722.3 | 1722.3              |                           | 4357  | 4357  | 4357  |                           |
| 3GPP Rel 99 AMR 12.2Kbps          | 23.59                | 23.70 | 23.60  | 25.00                     | 21.69  | 21.79  | 21.76               | 23.00                     | 23.53 | 23.66 | 23.71 | 25.00                     |
| 3GPP Rel 99 RMC 12.2Kbps          | 23.65                | 23.71 | 23.64  | 25.00                     | 21.81  | 21.93  | 21.69               | 23.58                     | 23.73 | 23.72 | 25.00 |                           |
| 3GPP Rel 6 HSDPA Subtest-1        | 22.53                | 22.72 | 22.86  | 24.00                     | 20.67  | 20.72  | 20.76               | 22.00                     | 22.65 | 22.62 | 22.60 | 24.00                     |
| 3GPP Rel 6 HSDPA Subtest-2        | 22.57                | 22.63 | 22.52  | 24.00                     | 20.68  | 20.62  | 20.62               | 22.00                     | 22.65 | 22.70 | 22.50 | 24.00                     |
| 3GPP Rel 6 HSDPA Subtest-3        | 22.10                | 22.25 | 22.21  | 23.50                     | 20.18  | 20.19  | 20.28               | 21.50                     | 22.01 | 22.21 | 22.23 | 23.50                     |
| 3GPP Rel 6 HSDPA Subtest-4        | 22.10                | 22.21 | 22.09  | 23.50                     | 20.16  | 20.28  | 20.17               | 21.50                     | 22.06 | 22.17 | 22.00 | 23.50                     |
| 3GPP Rel 8 DC-HSDPA Subtest-1     | 22.52                | 22.67 | 22.58  | 24.00                     | 20.63  | 20.63  | 20.65               | 22.00                     | 22.53 | 22.63 | 22.60 | 24.00                     |
| 3GPP Rel 8 DC-HSDPA Subtest-2     | 22.48                | 22.52 | 22.56  | 24.00                     | 20.61  | 20.68  | 20.69               | 22.00                     | 22.50 | 22.54 | 22.51 | 24.00                     |
| 3GPP Rel 8 DC-HSDPA Subtest-3     | 21.98                | 22.20 | 22.11  | 23.50                     | 20.09  | 20.31  | 20.11               | 21.50                     | 22.03 | 22.22 | 22.02 | 23.50                     |
| 3GPP Rel 8 DC-HSDPA Subtest-4     | 21.93                | 22.05 | 21.96  | 23.50                     | 20.01  | 20.19  | 20.08               | 21.50                     | 21.95 | 22.15 | 22.05 | 23.50                     |
| 3GPP Rel 6 HSUPA Subtest-1        | 22.46                | 22.56 | 22.53  | 24.00                     | 20.55  | 20.60  | 20.59               | 22.00                     | 22.41 | 22.52 | 22.46 | 24.00                     |
| 3GPP Rel 6 HSUPA Subtest-2        | 20.58                | 20.73 | 20.64  | 22.00                     | 18.67  | 18.85  | 18.76               | 20.00                     | 20.52 | 20.72 | 20.63 | 22.00                     |
| 3GPP Rel 6 HSUPA Subtest-3        | 21.71                | 21.82 | 21.70  | 23.00                     | 19.74  | 19.78  | 19.75               | 21.00                     | 21.65 | 21.82 | 21.63 | 23.00                     |
| 3GPP Rel 6 HSUPA Subtest-4        | 20.51                | 20.63 | 20.54  | 22.00                     | 18.61  | 18.84  | 18.53               | 20.00                     | 20.51 | 20.69 | 20.55 | 22.00                     |
| 3GPP Rel 6 HSUPA Subtest-5        | 22.53                | 22.61 | 22.52  | 24.00                     | 20.54  | 20.75  | 20.52               | 22.00                     | 22.53 | 22.61 | 22.55 | 24.00                     |
| 3GPP Rel 7 HSPA+ (MIMO) Subtest-1 | 20.13                | 20.22 | 20.14  | 21.50                     | 18.26  | 18.31  | 18.15               | 19.50                     | 20.13 | 20.24 | 20.17 | 21.50                     |



| Band 2 Default  |            |         |           |                     |                      |                        |                      |               |          |  |
|-----------------|------------|---------|-----------|---------------------|----------------------|------------------------|----------------------|---------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power High Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Tune-up (dBm) | MPR (dB) |  |
| Channel         |            |         |           |                     |                      |                        |                      |               |          |  |
| Frequency (MHz) |            |         |           |                     |                      |                        |                      |               |          |  |
| 20              | QPSK       | 1       | 0         | 24.14               | 24.25                | 24.21                  |                      |               |          |  |
| 20              | QPSK       | 1       | 49        | 24.17               | 24.18                | 24.03                  |                      | 25.5          | 0        |  |
| 20              | QPSK       | 1       | 99        | 24.04               | 24.22                | 24.17                  |                      |               |          |  |
| 20              | QPSK       | 50      | 0         | 23.00               | 23.12                | 22.95                  |                      |               |          |  |
| 20              | QPSK       | 50      | 24        | 23.04               | 23.00                | 22.96                  |                      | 24.5          | 1        |  |
| 20              | QPSK       | 50      | 50        | 22.92               | 23.06                | 22.92                  |                      |               |          |  |
| 20              | QPSK       | 100     | 0         | 22.89               | 23.00                | 22.90                  |                      |               |          |  |
| 20              | 16QAM      | 1       | 0         | 23.18               | 23.15                | 23.08                  |                      |               |          |  |
| 20              | 16QAM      | 1       | 49        | 23.20               | 23.00                | 23.14                  |                      | 24.5          | 1        |  |
| 20              | 16QAM      | 1       | 99        | 23.22               | 23.21                | 23.16                  |                      |               |          |  |
| 20              | 16QAM      | 50      | 0         | 21.91               | 22.09                | 22.06                  |                      |               |          |  |
| 20              | 16QAM      | 50      | 24        | 22.02               | 22.05                | 21.90                  |                      | 23.5          | 2        |  |
| 20              | 16QAM      | 50      | 50        | 22.09               | 22.05                | 21.99                  |                      |               |          |  |
| 20              | 16QAM      | 100     | 0         | 22.09               | 21.91                | 22.23                  |                      |               |          |  |
| 20              | 64QAM      | 1       | 0         | 21.95               | 22.00                | 22.03                  |                      |               |          |  |
| 20              | 64QAM      | 1       | 49        | 22.11               | 22.02                | 21.94                  |                      | 23.5          | 2        |  |
| 20              | 64QAM      | 1       | 99        | 21.98               | 22.11                | 22.15                  |                      |               |          |  |
| 20              | 64QAM      | 50      | 0         | 21.10               | 21.19                | 21.13                  |                      |               |          |  |
| 20              | 64QAM      | 50      | 24        | 21.12               | 21.05                | 21.14                  |                      | 22.5          | 3        |  |
| 20              | 64QAM      | 50      | 50        | 21.22               | 21.16                | 21.10                  |                      |               |          |  |
| 20              | 64QAM      | 100     | 0         | 21.03               | 21.08                | 21.14                  |                      |               |          |  |
| Channel         |            |         |           |                     |                      |                        |                      |               |          |  |
| Frequency (MHz) |            |         |           |                     |                      |                        |                      |               |          |  |
| 15              | QPSK       | 1       | 0         | 24.01               | 24.20                | 24.13                  |                      |               |          |  |
| 15              | QPSK       | 1       | 37        | 24.10               | 23.99                | 24.00                  |                      | 25.5          | 0        |  |
| 15              | QPSK       | 1       | 74        | 23.90               | 24.16                | 24.14                  |                      |               |          |  |
| 15              | QPSK       | 36      | 0         | 22.83               | 23.05                | 22.92                  |                      |               |          |  |
| 15              | QPSK       | 36      | 20        | 22.94               | 22.87                | 22.77                  |                      | 24.5          | 1        |  |
| 15              | QPSK       | 36      | 39        | 22.85               | 22.97                | 22.90                  |                      |               |          |  |
| 15              | QPSK       | 75      | 0         | 22.67               | 22.87                | 22.79                  |                      |               |          |  |
| 15              | 16QAM      | 1       | 0         | 23.05               | 23.00                | 22.93                  |                      |               |          |  |
| 15              | 16QAM      | 1       | 37        | 23.13               | 23.02                |                        |                      | 24.5          | 1        |  |
| 15              | 16QAM      | 1       | 74        | 23.05               | 23.18                | 23.07                  |                      |               |          |  |
| 15              | 16QAM      | 36      | 0         | 21.71               | 22.05                | 21.85                  |                      |               |          |  |
| 15              | 16QAM      | 36      | 20        | 21.85               | 21.89                | 21.80                  |                      | 23.5          | 2        |  |
| 15              | 16QAM      | 36      | 39        | 21.96               | 22.01                | 21.85                  |                      |               |          |  |
| 15              | 16QAM      | 75      | 0         | 21.88               | 21.75                | 22.05                  |                      |               |          |  |
| 15              | 16QAM      | 75      | 0         | 21.92               | 21.80                | 21.99                  |                      | 23.5          | 2        |  |
| 15              | 64QAM      | 1       | 37        | 21.93               | 21.96                | 21.81                  |                      |               |          |  |
| 15              | 64QAM      | 1       | 74        | 21.89               | 22.03                | 22.00                  |                      |               |          |  |
| 15              | 64QAM      | 36      | 0         | 21.03               | 20.99                | 21.01                  |                      |               |          |  |
| 15              | 64QAM      | 36      | 20        | 20.91               | 20.98                | 21.05                  |                      | 22.5          | 3        |  |
| 15              | 64QAM      | 36      | 39        | 21.18               | 21.12                | 20.96                  |                      |               |          |  |
| 15              | 64QAM      | 75      | 0         | 20.90               | 21.01                | 20.96                  |                      |               |          |  |
| Channel         |            |         |           |                     |                      |                        |                      |               |          |  |
| Frequency (MHz) |            |         |           |                     |                      |                        |                      |               |          |  |
| 10              | QPSK       | 1       | 0         | 23.99               | 24.05                | 24.01                  |                      |               |          |  |
| 10              | QPSK       | 1       | 25        | 24.12               | 24.02                | 23.98                  |                      | 25.5          | 0        |  |
| 10              | QPSK       | 1       | 49        | 23.92               | 24.16                | 23.96                  |                      |               |          |  |
| 10              | QPSK       | 25      | 0         | 22.82               | 23.05                | 22.73                  |                      |               |          |  |
| 10              | QPSK       | 25      | 12        | 22.92               | 22.98                | 22.79                  |                      | 24.5          | 1        |  |
| 10              | QPSK       | 25      | 25        | 22.89               | 22.85                | 22.79                  |                      |               |          |  |
| 10              | QPSK       | 50      | 0         | 22.70               | 22.81                | 22.75                  |                      |               |          |  |
| 10              | 16QAM      | 1       | 0         | 23.15               | 22.99                | 22.90                  |                      |               |          |  |
| 10              | 16QAM      | 1       | 25        | 23.02               | 22.81                | 22.95                  |                      | 24.5          | 1        |  |
| 10              | 16QAM      | 1       | 49        | 23.16               | 23.15                | 23.12                  |                      |               |          |  |
| 10              | 16QAM      | 25      | 0         | 21.91               | 21.97                | 21.97                  |                      | 23.5          | 2        |  |
| 10              | 16QAM      | 25      | 12        | 21.92               | 21.81                | 22.06                  |                      |               |          |  |
| 10              | 16QAM      | 25      | 25        | 21.91               | 21.97                | 21.97                  |                      |               |          |  |
| 10              | 16QAM      | 50      | 0         | 21.92               | 21.81                | 22.06                  |                      |               |          |  |
| 10              | 64QAM      | 1       | 0         | 21.90               | 21.91                | 21.89                  |                      | 23.5          | 2        |  |
| 10              | 64QAM      | 1       | 25        | 21.92               | 21.98                | 21.74                  |                      |               |          |  |
| 10              | 64QAM      | 1       | 49        | 21.92               | 22.01                | 21.96                  |                      |               |          |  |
| 10              | 64QAM      | 25      | 0         | 21.93               | 21.93                | 21.94                  |                      | 22.5          | 3        |  |
| 10              | 64QAM      | 25      | 12        | 21.09               | 20.97                | 20.97                  |                      |               |          |  |
| 10              | 64QAM      | 25      | 25        | 21.17               | 21.10                | 20.88                  |                      |               |          |  |
| 10              | 64QAM      | 50      | 0         | 20.81               | 20.87                | 21.03                  |                      |               |          |  |
| Channel         |            |         |           |                     |                      |                        |                      |               |          |  |
| Frequency (MHz) |            |         |           |                     |                      |                        |                      |               |          |  |
| 5               | QPSK       | 1       | 0         | 23.97               | 24.19                | 24.01                  |                      |               |          |  |
| 5               | QPSK       | 1       | 14        | 24.14               | 24.04                | 24.00                  |                      | 25.5          | 0        |  |
| 5               | QPSK       | 1       | 24        | 23.93               | 24.17                | 24.11                  |                      |               |          |  |
| 5               | QPSK       | 12      | 0         | 22.90               | 23.05                | 22.85                  |                      |               |          |  |
| 5               | QPSK       | 12      | 7         | 22.98               | 22.90                | 22.84                  |                      | 24.5          | 1        |  |
| 5               | QPSK       | 12      | 13        | 22.82               | 23.03                | 22.89                  |                      |               |          |  |
| 5               | QPSK       | 25      | 0         | 22.81               | 22.86                | 22.80                  |                      |               |          |  |
| 5               | 16QAM      | 1       | 0         | 22.98               | 22.98                | 22.99                  |                      |               |          |  |
| 5               | 16QAM      | 1       | 12        | 23.01               | 22.83                | 22.98                  |                      | 24.5          | 1        |  |
| 5               | 16QAM      | 1       | 24        | 23.20               | 23.18                | 23.14                  |                      |               |          |  |
| 5               | 16QAM      | 12      | 0         | 21.77               | 21.88                | 21.89                  |                      |               |          |  |
| 5               | 16QAM      | 12      | 7         | 21.89               | 21.94                | 21.78                  |                      | 23.5          | 2        |  |
| 5               | 16QAM      | 12      | 13        | 21.90               | 21.89                | 21.90                  |                      |               |          |  |
| 5               | 16QAM      | 25      | 0         | 21.94               | 21.83                | 22.08                  |                      |               |          |  |
| 5               | 16QAM      | 25      | 0         | 21.78               | 21.84                | 21.82                  |                      | 23.5          | 2        |  |
| 5               | 64QAM      | 1       | 12        | 22.07               | 21.89                | 21.79                  |                      |               |          |  |
| 5               | 64QAM      | 1       | 24        | 21.90               | 21.93                | 21.99                  |                      |               |          |  |
| 5               | 64QAM      | 12      | 0         | 21.01               | 21.09                | 20.91                  |                      | 22.5          | 3        |  |
| 5               | 64QAM      | 12      | 7         | 21.04               | 20.90                | 21.09                  |                      |               |          |  |
| 5               | 64QAM      | 12      | 13        | 21.19               | 20.84                | 21.08                  |                      |               |          |  |
| 5               | 64QAM      | 25      | 0         | 21.07               | 21.02                | 21.01                  |                      |               |          |  |
| Channel         |            |         |           |                     |                      |                        |                      |               |          |  |
| Frequency (MHz) |            |         |           |                     |                      |                        |                      |               |          |  |
| 3               | QPSK       | 1       | 0         | 23.94               | 24.08                | 24.00                  |                      |               |          |  |
| 3               | QPSK       | 1       | 8         | 24.13               | 24.03                | 23.96                  |                      | 25.5          | 0        |  |
| 3               | QPSK       | 1       | 14        | 23.97               | 24.06                | 23.95                  |                      |               |          |  |
| 3               | QPSK       | 8       | 0         | 22.95               | 23.07                | 22.78                  |                      |               |          |  |
| 3               | QPSK       | 8       | 7         | 22.90               | 22.82                | 22.86                  |                      | 24.5          | 1        |  |
| 3               | QPSK       | 8       | 7         | 22.82               | 22.95                | 22.88                  |                      |               |          |  |
| 3               | QPSK       | 15      | 0         | 22.78               | 22.95                | 22.84                  |                      |               |          |  |
| 3               | 16QAM      | 1       | 0         | 23.61               | 23.08                | 22.92                  |                      |               |          |  |
| 3               | 16QAM      | 1       | 8         | 23.06               | 22.84                | 22.92                  |                      | 24.5          | 1        |  |
| 3               | 16QAM      | 8       | 0         | 21.87               | 21.95                | 21.97                  |                      |               |          |  |
| 3               | 16QAM      | 8       | 4         | 21.98               | 22.00                | 21.69                  |                      | 23.5          | 2        |  |
| 3               | 16QAM      | 8       | 7         | 21.89               | 21.96                | 21.81                  |                      |               |          |  |
| 3               | 16QAM      | 15      | 0         | 21.89               | 21.74                | 22.13                  |                      |               |          |  |
| 3               | 64QAM      | 1       | 0         | 21.80               | 21.79                | 21.97                  |                      |               |          |  |
| 3               | 64QAM      | 1       | 8         | 22.04               | 21.88                | 21.85                  |                      | 23.5          | 2        |  |
| 3               | 64QAM      | 1       | 14        | 21.85               | 21.96                | 22.02                  |                      |               |          |  |
| 3               | 64QAM      | 8       | 0         | 20.94               | 21.14                | 20.96                  |                      |               |          |  |
| 3               | 64QAM      | 8       | 4         | 21.09               | 20.96                | 21.11                  |                      | 22.5          | 3        |  |
| 3               | 64QAM      | 8       | 7         | 21.12               | 21.08                | 20.96                  |                      |               |          |  |
| 3               | 64QAM      | 15      | 0         | 20.92               | 20.99                | 21.10                  |                      |               |          |  |
| Channel         |            |         |           |                     |                      |                        |                      |               |          |  |
| Frequency (MHz) |            |         |           |                     |                      |                        |                      |               |          |  |
| 1.4             | QPSK       | 1       | 0         | 24.07               | 24.19                | 24.06                  |                      |               |          |  |
| 1.4             | QPSK       | 1       | 3         | 24.01               | 24.08                | 23.81                  |                      | 25.5          | 0        |  |
| 1.4             | QPSK       | 1       | 5         | 23.95               | 24.02                | 23.99                  |                      |               |          |  |
| 1.4             | QPSK       | 3       | 0         | 24.12               | 24.20                | 24.05                  |                      |               |          |  |
| 1.4             | QPSK       | 3       | 1         | 24.06               | 24.01                | 23.83                  |                      |               |          |  |
| 1.4             | QPSK       | 3       | 3         | 23.97               | 24.00                | 23.99                  |                      |               |          |  |
| 1.4             | QPSK       | 6       | 0         | 22.86               | 22.95                | 22.82                  |                      | 24.5          | 1        |  |
| 1.4             | 16QAM      | 1       | 0         | 22.83               | 22.98                | 22.86                  |                      |               |          |  |
| 1.4             | 16QAM      | 1       | 3         | 22.98               | 23.04                | 22.77                  |                      |               |          |  |
| 1.4             | 16QAM      | 1       | 5         | 22.69               | 22.81                | 22.83                  |                      | 24.5          | 1        |  |
| 1.4             | 16QAM      | 3       | 0         | 23.08               | 22.95                | 22.98                  |                      |               |          |  |
| 1.4             | 16QAM      | 3       | 1         | 23.17               | 22.88                | 23.04                  |                      |               |          |  |
| 1.4             | 16QAM      | 3       | 3         | 23.06               | 23.04                | 23.11                  |                      |               |          |  |
| 1.4             | 16QAM      | 6       | 0         | 21.85               | 21.96                | 22.02                  |                      | 23.5          | 2        |  |
| 1.4             | 64QAM      | 1       | 0         | 21.82               | 22.01                | 21.75                  |                      |               |          |  |
| 1.4             | 64QAM      | 1       | 3         | 22.03               | 21.88                | 21.85                  |                      |               |          |  |
| 1.4             | 64QAM      | 1       | 5         | 22.04               | 21.88                | 22.12                  |                      | 23.5          | 2        |  |
| 1.4             | 64QAM      | 3       | 0         | 21.74               | 21.92                | 21.95                  |                      |               |          |  |
| 1.4             | 64QAM      | 3       | 1         | 22.04               | 21.96                | 21.82                  |                      |               |          |  |
| 1.4             | 64QAM      | 3       | 3         | 21.86               | 21.91                | 22.11                  |                      |               |          |  |
| 1.4             | 64QAM      | 6       | 0         | 20.91               | 21.15                | 20.93                  |                      | 22.5          | 3        |  |

| Band 4 DSI4 |  |  |  |  |  |  |  |  |  |  |
|-------------|--|--|--|--|--|--|--|--|--|--|
| BW (        |  |  |  |  |  |  |  |  |  |  |

| Band 13 Ant4 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              |            |         |           | 23259                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |            |         |           | 782                   |                          |                        |                     |          |  |  |
| 10                   | QPSK       | 1       | 0         | 24.24                 | 24.24                    | 24.14                  |                     |          |  |  |
| 10                   | QPSK       | 1       | 25        | 24.05                 | 24.05                    | 24.15                  | 25.5                | 0        |  |  |
| 10                   | QPSK       | 1       | 49        | 24.23                 | 24.23                    | 24.13                  |                     |          |  |  |
| 10                   | QPSK       | 25      | 0         | 23.17                 | 23.17                    | 23.16                  | 24.5                | 1        |  |  |
| 10                   | QPSK       | 25      | 12        | 22.96                 | 22.96                    | 22.96                  |                     |          |  |  |
| 10                   | QPSK       | 25      | 25        | 22.99                 | 22.99                    | 22.99                  |                     |          |  |  |
| 10                   | QPSK       | 50      | 0         | 23.06                 | 23.06                    | 23.06                  |                     |          |  |  |
| 10                   | 16QAM      | 1       | 0         | 23.18                 | 23.18                    | 23.18                  |                     |          |  |  |
| 10                   | 16QAM      | 1       | 25        | 23.07                 | 23.07                    | 23.07                  | 24.5                | 1        |  |  |
| 10                   | 16QAM      | 1       | 49        | 23.04                 | 23.04                    | 23.04                  |                     |          |  |  |
| 10                   | 16QAM      | 25      | 0         | 22.06                 | 22.06                    | 22.06                  |                     |          |  |  |
| 10                   | 16QAM      | 25      | 12        | 22.07                 | 22.07                    | 22.07                  |                     |          |  |  |
| 10                   | 16QAM      | 25      | 25        | 22.18                 | 22.18                    | 22.18                  | 23.5                | 2        |  |  |
| 10                   | 16QAM      | 50      | 0         | 22.11                 | 22.11                    | 22.11                  |                     |          |  |  |
| 10                   | 64QAM      | 1       | 0         | 22.34                 | 22.34                    | 22.34                  |                     |          |  |  |
| 10                   | 64QAM      | 1       | 25        | 22.45                 | 22.45                    | 22.45                  | 23.5                | 2        |  |  |
| 10                   | 64QAM      | 1       | 49        | 22.43                 | 22.43                    | 22.43                  |                     |          |  |  |
| 10                   | 64QAM      | 25      | 0         | 21.32                 | 21.32                    | 21.32                  |                     |          |  |  |
| 10                   | 64QAM      | 25      | 12        | 21.23                 | 21.23                    | 21.23                  |                     |          |  |  |
| 10                   | 64QAM      | 25      | 25        | 21.43                 | 21.43                    | 21.43                  | 22.5                | 3        |  |  |
| 10                   | 64QAM      | 50      | 0         | 21.28                 | 21.28                    | 21.28                  |                     |          |  |  |
| Channel              |            |         |           | 23205                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |            |         |           | 779.5                 |                          |                        |                     |          |  |  |
| 5                    | QPSK       | 1       | 0         | 24.05                 | 24.10                    | 24.14                  |                     |          |  |  |
| 5                    | QPSK       | 1       | 12        | 23.89                 | 24.01                    | 23.96                  | 25.5                | 0        |  |  |
| 5                    | QPSK       | 1       | 24        | 24.06                 | 24.11                    | 24.11                  |                     |          |  |  |
| 5                    | QPSK       | 12      | 0         | 23.14                 | 22.98                    | 22.98                  |                     |          |  |  |
| 5                    | QPSK       | 12      | 7         | 22.87                 | 22.86                    | 22.85                  | 24.5                | 1        |  |  |
| 5                    | QPSK       | 12      | 13        | 22.85                 | 22.92                    | 22.88                  |                     |          |  |  |
| 5                    | QPSK       | 25      | 0         | 22.99                 | 23.00                    | 22.99                  |                     |          |  |  |
| 5                    | 16QAM      | 1       | 0         | 23.04                 | 23.04                    | 22.99                  |                     |          |  |  |
| 5                    | 16QAM      | 1       | 12        | 22.93                 | 23.03                    | 22.85                  | 24.5                | 1        |  |  |
| 5                    | 16QAM      | 1       | 24        | 22.83                 | 22.84                    | 22.99                  |                     |          |  |  |
| 5                    | 16QAM      | 12      | 0         | 21.99                 | 21.91                    | 21.85                  |                     |          |  |  |
| 5                    | 16QAM      | 12      | 7         | 21.97                 | 21.97                    | 21.89                  | 23.5                | 2        |  |  |
| 5                    | 16QAM      | 12      | 13        | 22.02                 | 21.99                    | 22.07                  |                     |          |  |  |
| 5                    | 16QAM      | 25      | 0         | 21.96                 | 22.02                    | 21.92                  |                     |          |  |  |
| 5                    | 64QAM      | 1       | 0         | 22.16                 | 22.24                    | 22.15                  |                     |          |  |  |
| 5                    | 64QAM      | 1       | 12        | 22.30                 | 22.40                    | 22.23                  | 23.5                | 2        |  |  |
| 5                    | 64QAM      | 1       | 24        | 22.38                 | 22.29                    | 22.23                  |                     |          |  |  |
| 5                    | 64QAM      | 12      | 0         | 21.16                 | 21.11                    | 21.12                  |                     |          |  |  |
| 5                    | 64QAM      | 12      | 7         | 21.10                 | 21.17                    | 21.03                  | 22.5                | 3        |  |  |
| 5                    | 64QAM      | 12      | 13        | 21.25                 | 21.21                    | 21.23                  |                     |          |  |  |
| 5                    | 64QAM      | 25      | 0         | 21.08                 | 21.19                    | 21.08                  |                     |          |  |  |

| Band 26 Ant4 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              |            |         |           | 26765                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 821.5                 |                          |                        |                     |          |  |
| 15                   | QPSK       | 1       | 0         | 24.06                 | 24.28                    | 24.12                  |                     |          |  |
| 15                   | QPSK       | 1       | 37        | 24.03                 | 24.19                    | 24.04                  | 25.5                | 0        |  |
| 15                   | QPSK       | 1       | 74        | 24.09                 | 24.07                    | 24.17                  |                     |          |  |
| 15                   | QPSK       | 36      | 0         | 23.06                 | 23.18                    | 23.16                  |                     |          |  |
| 15                   | QPSK       | 36      | 20        | 23.14                 | 23.13                    | 23.08                  | 24.5                | 1        |  |
| 15                   | QPSK       | 36      | 39        | 23.08                 | 22.98                    | 23.06                  |                     |          |  |
| 15                   | QPSK       | 75      | 0         | 23.15                 | 23.16                    | 23.01                  |                     |          |  |
| 15                   | 16QAM      | 1       | 0         | 23.19                 | 23.33                    | 23.15                  | 24.5                | 1        |  |
| 15                   | 16QAM      | 1       | 37        | 23.13                 | 23.28                    | 23.31                  |                     |          |  |
| 15                   | 16QAM      | 1       | 74        | 23.23                 | 23.27                    | 23.14                  |                     |          |  |
| 15                   | 16QAM      | 36      | 0         | 22.08                 | 22.24                    | 22.21                  |                     |          |  |
| 15                   | 16QAM      | 36      | 20        | 22.07                 | 22.33                    | 22.02                  | 23.5                | 2        |  |
| 15                   | 16QAM      | 36      | 39        | 22.05                 | 22.20                    | 22.12                  |                     |          |  |
| 15                   | 16QAM      | 75      | 0         | 22.19                 | 22.37                    | 22.18                  |                     |          |  |
| 15                   | 64QAM      | 1       | 0         | 22.05                 | 22.12                    | 22.06                  |                     |          |  |
| 15                   | 64QAM      | 1       | 37        | 22.13                 | 22.08                    | 22.10                  | 23.5                | 2        |  |
| 15                   | 64QAM      | 1       | 74        | 22.12                 | 22.10                    | 22.07                  |                     |          |  |
| 15                   | 64QAM      | 36      | 0         | 21.13                 | 21.16                    | 20.95                  |                     |          |  |
| 15                   | 64QAM      | 36      | 20        | 21.17                 | 21.27                    | 21.12                  | 22.5                | 3        |  |
| 15                   | 64QAM      | 36      | 39        | 21.12                 | 21.19                    | 21.16                  |                     |          |  |
| 15                   | 64QAM      | 75      | 0         | 21.12                 | 21.20                    | 21.13                  |                     |          |  |
| Channel              |            |         |           | 26740                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 819                   |                          |                        |                     |          |  |
| 10                   | QPSK       | 1       | 0         | 24.02                 | 24.12                    | 23.96                  |                     |          |  |
| 10                   | QPSK       | 1       | 25        | 23.99                 | 24.11                    | 23.94                  | 25.5                | 0        |  |
| 10                   | QPSK       | 1       | 49        | 23.88                 | 23.92                    | 23.99                  |                     |          |  |
| 10                   | QPSK       | 25      | 0         | 23.03                 | 22.97                    | 22.99                  |                     |          |  |
| 10                   | QPSK       | 25      | 12        | 22.98                 | 22.94                    | 23.03                  | 24.5                | 1        |  |
| 10                   | QPSK       | 25      | 25        | 22.90                 | 22.81                    | 22.93                  |                     |          |  |
| 10                   | QPSK       | 50      | 0         | 23.09                 | 23.14                    | 22.98                  |                     |          |  |
| 10                   | 16QAM      | 1       | 0         | 22.90                 | 23.04                    | 22.99                  | 24.5                | 1        |  |
| 10                   | 16QAM      | 1       | 25        | 22.96                 | 23.02                    | 22.92                  |                     |          |  |
| 10                   | 16QAM      | 1       | 49        | 23.14                 | 23.21                    | 22.96                  |                     |          |  |
| 10                   | 16QAM      | 25      | 0         | 21.92                 | 22.13                    | 22.13                  |                     |          |  |
| 10                   | 16QAM      | 25      | 12        | 22.04                 | 22.18                    | 21.96                  | 23.5                | 2        |  |
| 10                   | 16QAM      | 25      | 25        | 21.99                 | 22.12                    | 21.99                  |                     |          |  |
| 10                   | 16QAM      | 50      | 0         | 22.08                 | 22.32                    | 22.00                  |                     |          |  |
| 10                   | 64QAM      | 1       | 0         | 22.01                 | 22.01                    | 21.91                  | 23.5                | 2        |  |
| 10                   | 64QAM      | 1       | 25        | 22.10                 | 21.90                    | 22.04                  |                     |          |  |
| 10                   | 64QAM      | 1       | 49        | 22.05                 | 21.93                    | 22.02                  |                     |          |  |
| 10                   | 64QAM      | 25      | 0         | 20.93                 | 20.98                    | 20.75                  |                     |          |  |
| 10                   | 64QAM      | 25      | 12        | 20.97                 | 21.14                    | 20.95                  | 22.5                | 3        |  |
| 10                   | 64QAM      | 25      | 25        | 21.03                 | 21.03                    | 21.09                  |                     |          |  |
| 10                   | 64QAM      | 50      | 0         | 20.95                 | 21.01                    | 21.01                  |                     |          |  |
| Channel              |            |         |           | 26715                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 816.5                 |                          |                        |                     |          |  |
| 5                    | QPSK       | 1       | 0         | 23.91                 | 24.23                    | 23.90                  |                     |          |  |
| 5                    | QPSK       | 1       | 12        | 23.83                 | 24.01                    | 24.00                  | 25.5                | 0        |  |
| 5                    | QPSK       | 1       | 24        | 23.89                 | 24.02                    | 24.11                  |                     |          |  |
| 5                    | QPSK       | 12      | 0         | 22.90                 | 23.10                    | 23.10                  |                     |          |  |
| 5                    | QPSK       | 12      | 7         | 23.04                 | 22.97                    | 23.04                  | 24.5                | 1        |  |
| 5                    | QPSK       | 12      | 13        | 23.02                 | 22.78                    | 22.96                  |                     |          |  |
| 5                    | QPSK       | 25      | 0         | 23.09                 | 23.06                    | 22.93                  |                     |          |  |
| 5                    | 16QAM      | 1       | 0         | 23.11                 | 23.27                    | 23.03                  |                     |          |  |
| 5                    | 16QAM      | 1       | 12        | 22.96                 | 23.22                    | 23.14                  | 24.5                | 1        |  |
| 5                    | 16QAM      | 1       | 24        | 23.20                 | 23.13                    | 22.98                  |                     |          |  |
| 5                    | 16QAM      | 12      | 0         | 21.92                 | 22.16                    | 22.14                  |                     |          |  |
| 5                    | 16QAM      | 12      | 7         | 22.05                 | 22.30                    | 21.93                  | 23.5                | 2        |  |
| 5                    | 16QAM      | 12      | 13        | 21.89                 | 22.11                    | 22.06                  |                     |          |  |
| 5                    | 16QAM      | 25      | 0         | 22.18                 | 22.27                    | 22.09                  |                     |          |  |
| 5                    | 64QAM      | 1       | 0         | 22.01                 | 21.97                    | 21.89                  |                     |          |  |
| 5                    | 64QAM      | 1       | 12        | 22.00                 | 21.96                    | 21.90                  | 23.5                | 2        |  |
| 5                    | 64QAM      | 1       | 24        | 22.05                 | 22.03                    | 21.87                  |                     |          |  |
| 5                    | 64QAM      | 12      | 0         | 21.08                 | 21.01                    | 20.75                  |                     |          |  |
| 5                    | 64QAM      | 12      | 7         | 21.12                 | 21.11                    | 21.10                  | 22.5                | 3        |  |
| 5                    | 64QAM      | 12      | 13        | 20.92                 | 21.07                    | 21.12                  |                     |          |  |
| 5                    | 64QAM      | 25      | 0         | 21.06                 | 21.07                    | 21.08                  |                     |          |  |
| Channel              |            |         |           | 26705                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 815.5                 |                          |                        |                     |          |  |
| 3                    | QPSK       | 1       | 0         | 23.84                 | 24.12                    | 24.00                  |                     |          |  |
| 3                    | QPSK       | 1       | 8         | 23.82                 | 24.10                    | 24.00                  | 25.5                | 0        |  |
| 3                    | QPSK       | 1       | 14        | 24.07                 | 23.92                    | 24.05                  |                     |          |  |
| 3                    | QPSK       | 8       | 0         | 23.02                 | 23.04                    | 23.13                  |                     |          |  |
| 3                    | QPSK       | 8       | 4         | 22.93                 | 23.06                    | 22.87                  | 24.5                | 1        |  |
| 3                    | QPSK       | 8       | 7         | 23.01                 | 22.87                    | 23.03                  |                     |          |  |
| 3                    | QPSK       | 15      | 0         | 23.04                 | 23.11                    | 22.86                  |                     |          |  |
| 3                    | 16QAM      | 1       | 0         | 23.03                 | 23.24                    | 23.11                  | 24.5                | 1        |  |
| 3                    | 16QAM      | 1       | 8         | 23.11                 | 23.10                    | 23.22                  |                     |          |  |
| 3                    | 16QAM      | 1       | 14        | 23.15                 | 23.13                    | 23.11                  |                     |          |  |
| 3                    | 16QAM      | 8       | 0         | 22.01                 | 22.08                    | 22.13                  |                     |          |  |
| 3                    | 16QAM      | 8       | 4         | 21.85                 | 22.14                    | 21.85                  | 23.5                | 2        |  |
| 3                    | 16QAM      | 8       | 7         | 21.84                 | 22.08                    | 21.92                  |                     |          |  |
| 3                    | 16QAM      | 15      | 0         | 22.13                 | 22.21                    | 22.12                  |                     |          |  |
| 3                    | 64QAM      | 1       | 0         | 22.02                 | 22.02                    | 21.91                  | 23.5                | 2        |  |
| 3                    | 64QAM      | 1       | 8         | 21.94                 | 21.94                    | 22.03                  |                     |          |  |
| 3                    | 64QAM      | 1       | 14        | 21.98                 | 21.91                    | 21.89                  |                     |          |  |
| 3                    | 64QAM      | 8       | 0         | 21.02                 | 21.00                    | 20.78                  |                     |          |  |
| 3                    | 64QAM      | 8       | 4         | 21.10                 | 21.06                    | 21.00                  | 22.5                | 3        |  |
| 3                    | 64QAM      | 8       | 7         | 20.92                 | 20.98                    | 21.08                  |                     |          |  |
| 3                    | 64QAM      | 15      | 0         | 21.06                 | 21.04                    | 21.07                  |                     |          |  |
| Channel              |            |         |           | 26697                 |                          |                        |                     |          |  |
| Frequency (MHz)      |            |         |           | 814.7                 |                          |                        |                     |          |  |
|                      |            |         |           |                       |                          |                        |                     |          |  |

| Band 38 Ant4 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         | 24.07                 | 24.25                    | 24.21                  | 25.5                | 0        |  |
| 20                   | QPSK       | 1       | 49        | 24.23                 | 24.18                    | 24.12                  |                     |          |  |
| 20                   | QPSK       | 1       | 99        | 24.03                 | 24.11                    | 24.20                  |                     |          |  |
| 20                   | QPSK       | 50      | 0         | 23.27                 | 23.34                    | 23.30                  |                     |          |  |
| 20                   | QPSK       | 50      | 24        | 23.09                 | 23.11                    | 23.13                  | 24.5                | 1        |  |
| 20                   | QPSK       | 50      | 50        | 23.14                 | 23.26                    | 23.23                  |                     |          |  |
| 20                   | QPSK       | 100     | 0         | 23.20                 | 23.32                    | 23.29                  |                     |          |  |
| 20                   | 16QAM      | 1       | 0         | 23.10                 | 23.29                    | 23.21                  | 24.5                | 1        |  |
| 20                   | 16QAM      | 1       | 49        | 23.11                 | 23.31                    | 23.14                  |                     |          |  |
| 20                   | 16QAM      | 1       | 99        | 23.16                 | 23.23                    | 23.24                  |                     |          |  |
| 20                   | 16QAM      | 50      | 0         | 22.48                 | 22.48                    | 22.28                  |                     |          |  |
| 20                   | 16QAM      | 50      | 24        | 22.43                 | 22.52                    | 22.39                  | 23.5                | 2        |  |
| 20                   | 16QAM      | 50      | 50        | 22.33                 | 22.43                    | 22.41                  |                     |          |  |
| 20                   | 16QAM      | 100     | 0         | 22.44                 | 22.42                    | 22.21                  |                     |          |  |
| 20                   | 64QAM      | 1       | 0         | 22.14                 | 22.36                    | 22.26                  |                     |          |  |
| 20                   | 64QAM      | 1       | 49        | 22.29                 | 22.31                    | 22.33                  | 23.5                | 2        |  |
| 20                   | 64QAM      | 1       | 99        | 22.21                 | 22.30                    | 22.21                  |                     |          |  |
| 20                   | 64QAM      | 50      | 0         | 21.11                 | 21.30                    | 21.22                  |                     |          |  |
| 20                   | 64QAM      | 50      | 24        | 21.28                 | 21.22                    | 21.30                  | 22.5                | 3        |  |
| 20                   | 64QAM      | 50      | 50        | 21.27                 | 21.31                    | 21.30                  |                     |          |  |
| 20                   | 64QAM      | 100     | 0         | 21.44                 | 21.45                    | 21.24                  |                     |          |  |
| Channel              |            |         |           | 37925                 | 38000                    | 38175                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2677.5                | 2695                     | 2612.5                 |                     |          |  |
| 15                   | QPSK       | 1       | 0         | 23.93                 | 24.18                    | 24.07                  | 25.5                | 0        |  |
| 15                   | QPSK       | 1       | 37        | 24.11                 | 24.01                    | 23.95                  |                     |          |  |
| 15                   | QPSK       | 1       | 74        | 23.88                 | 23.93                    | 24.12                  |                     |          |  |
| 15                   | QPSK       | 36      | 0         | 23.21                 | 23.12                    | 23.19                  | 24.5                | 1        |  |
| 15                   | QPSK       | 36      | 20        | 23.01                 | 22.97                    | 23.03                  |                     |          |  |
| 15                   | QPSK       | 36      | 39        | 22.95                 | 23.07                    | 23.09                  |                     |          |  |
| 15                   | QPSK       | 75      | 0         | 23.17                 | 23.30                    | 23.24                  |                     |          |  |
| 15                   | 16QAM      | 1       | 0         | 22.97                 | 23.11                    | 23.18                  | 24.5                | 1        |  |
| 15                   | 16QAM      | 1       | 37        | 22.92                 | 23.22                    | 23.11                  |                     |          |  |
| 15                   | 16QAM      | 1       | 74        | 23.12                 | 23.17                    | 23.06                  |                     |          |  |
| 15                   | 16QAM      | 36      | 0         | 22.31                 | 22.45                    | 22.20                  | 23.5                | 2        |  |
| 15                   | 16QAM      | 36      | 20        | 22.27                 | 22.35                    | 22.23                  |                     |          |  |
| 15                   | 16QAM      | 36      | 39        | 22.18                 | 22.40                    | 22.38                  |                     |          |  |
| 15                   | 16QAM      | 75      | 0         | 22.40                 | 22.24                    | 22.09                  |                     |          |  |
| 15                   | 64QAM      | 1       | 0         | 22.06                 | 22.33                    | 22.08                  | 23.5                | 2        |  |
| 15                   | 64QAM      | 1       | 37        | 22.39                 | 22.19                    | 22.22                  |                     |          |  |
| 15                   | 64QAM      | 1       | 74        | 22.13                 | 22.10                    | 21.99                  |                     |          |  |
| 15                   | 64QAM      | 36      | 0         | 20.93                 | 21.22                    | 21.04                  | 22.5                | 3        |  |
| 15                   | 64QAM      | 36      | 20        | 21.21                 | 21.10                    | 21.19                  |                     |          |  |
| 15                   | 64QAM      | 36      | 39        | 21.17                 | 21.19                    | 21.04                  |                     |          |  |
| 15                   | 64QAM      | 75      | 0         | 21.35                 | 21.38                    | 21.08                  |                     |          |  |
| Channel              |            |         |           | 37800                 | 38000                    | 38200                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2675                  | 2695                     | 2615                   |                     |          |  |
| 10                   | QPSK       | 1       | 0         | 24.01                 | 24.22                    | 24.13                  | 25.5                | 0        |  |
| 10                   | QPSK       | 1       | 25        | 24.12                 | 24.07                    | 23.94                  |                     |          |  |
| 10                   | QPSK       | 1       | 49        | 23.90                 | 24.00                    | 23.99                  |                     |          |  |
| 10                   | QPSK       | 25      | 0         | 23.11                 | 23.19                    | 23.20                  | 24.5                | 1        |  |
| 10                   | QPSK       | 25      | 12        | 23.04                 | 22.95                    | 23.09                  |                     |          |  |
| 10                   | QPSK       | 25      | 25        | 23.08                 | 23.15                    | 23.01                  |                     |          |  |
| 10                   | QPSK       | 50      | 0         | 22.99                 | 23.29                    | 23.15                  |                     |          |  |
| 10                   | QPSK       | 1       | 0         | 23.04                 | 23.22                    | 23.16                  | 24.5                | 1        |  |
| 10                   | 16QAM      | 1       | 25        | 23.08                 | 23.23                    | 23.06                  |                     |          |  |
| 10                   | 16QAM      | 1       | 49        | 22.96                 | 23.20                    | 23.04                  |                     |          |  |
| 10                   | 16QAM      | 25      | 0         | 22.42                 | 22.30                    | 22.24                  | 23.5                | 2        |  |
| 10                   | 16QAM      | 25      | 12        | 22.27                 | 22.41                    | 22.20                  |                     |          |  |
| 10                   | 16QAM      | 25      | 25        | 22.16                 | 22.26                    | 22.19                  |                     |          |  |
| 10                   | 16QAM      | 50      | 0         | 22.37                 | 22.39                    | 22.07                  |                     |          |  |
| 10                   | 64QAM      | 1       | 0         | 22.10                 | 22.28                    | 22.06                  | 23.5                | 2        |  |
| 10                   | 64QAM      | 1       | 25        | 22.08                 | 22.28                    | 22.28                  |                     |          |  |
| 10                   | 64QAM      | 1       | 49        | 22.18                 | 22.19                    | 22.03                  |                     |          |  |
| 10                   | 64QAM      | 25      | 0         | 21.06                 | 21.24                    | 21.10                  | 22.5                | 3        |  |
| 10                   | 64QAM      | 25      | 12        | 21.25                 | 21.02                    | 21.12                  |                     |          |  |
| 10                   | 64QAM      | 25      | 25        | 21.10                 | 21.11                    | 21.06                  |                     |          |  |
| 10                   | 64QAM      | 50      | 0         | 21.24                 | 21.33                    | 21.11                  |                     |          |  |
| Channel              |            |         |           | 37775                 | 38000                    | 38225                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2672.5                | 2695                     | 2617.5                 |                     |          |  |
| 5                    | QPSK       | 1       | 0         | 23.90                 | 24.18                    | 24.17                  | 25.5                | 0        |  |
| 5                    | QPSK       | 1       | 12        | 24.10                 | 24.01                    | 23.97                  |                     |          |  |
| 5                    | QPSK       | 1       | 24        | 23.94                 | 24.03                    | 24.07                  |                     |          |  |
| 5                    | QPSK       | 12      | 0         | 23.15                 | 23.31                    | 23.26                  | 24.5                | 1        |  |
| 5                    | QPSK       | 12      | 7         | 23.00                 | 22.89                    | 22.96                  |                     |          |  |
| 5                    | QPSK       | 12      | 13        | 23.07                 | 23.15                    | 23.13                  |                     |          |  |
| 5                    | QPSK       | 25      | 0         | 22.88                 | 23.21                    | 23.28                  |                     |          |  |
| 5                    | 16QAM      | 1       | 0         | 22.93                 | 23.22                    | 23.04                  | 24.5                | 1        |  |
| 5                    | 16QAM      | 1       | 12        | 22.92                 | 23.10                    | 22.97                  |                     |          |  |
| 5                    | 16QAM      | 1       | 24        | 23.00                 | 23.09                    | 23.21                  |                     |          |  |
| 5                    | 16QAM      | 12      | 0         | 22.45                 | 22.45                    | 22.11                  | 23.5                | 2        |  |
| 5                    | 16QAM      | 12      | 7         | 22.32                 | 22.44                    | 22.29                  |                     |          |  |
| 5                    | 16QAM      | 12      | 13        | 22.21                 | 22.30                    | 22.34                  |                     |          |  |
| 5                    | 16QAM      | 25      | 0         | 22.33                 | 22.32                    | 22.00                  |                     |          |  |
| 5                    | 64QAM      | 1       | 0         | 22.01                 | 22.32                    | 22.23                  | 23.5                | 2        |  |
| 5                    | 64QAM      | 1       | 12        | 22.17                 | 22.21                    | 22.23                  |                     |          |  |
| 5                    | 64QAM      | 1       | 24        | 22.10                 | 22.23                    | 22.11                  |                     |          |  |
| 5                    | 64QAM      | 12      | 0         | 20.93                 | 21.28                    | 21.19                  | 22.5                | 3        |  |
| 5                    | 64QAM      | 12      | 7         | 21.20                 | 21.15                    | 21.12                  |                     |          |  |
| 5                    | 64QAM      | 12      | 13        | 21.20                 | 21.13                    | 21.05                  |                     |          |  |
| 5                    | 64QAM      | 25      | 0         | 21.42                 | 21.29                    | 21.17                  |                     |          |  |

| Band 41 Ant4 Default |            |         |           |                       |                              |                          |                               |                        |                     |          |
|----------------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| 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         | 23.92                 | 24.30                        | 24.20                    | 23.96                         | 24.02                  | 25.5                | 0        |
| 20                   | QPSK       | 1       | 49        | 24.16                 | 24.26                        | 24.11                    | 24.01                         | 23.96                  |                     |          |
| 20                   | QPSK       | 1       | 99        | 24.09                 | 24.16                        | 24.18                    | 23.96                         | 24.09                  |                     |          |
| 20                   | QPSK       | 50      | 0         | 23.26                 | 23.35                        | 23.23                    | 23.22                         | 23.23                  | 24.5                | 1        |
| 20                   | QPSK       | 50      | 24        | 23.23                 | 23.19                        | 23.26                    | 23.32                         | 23.11                  |                     |          |
| 20                   | QPSK       | 50      | 50        | 23.19                 | 23.26                        | 23.30                    | 23.13                         | 23.30                  |                     |          |
| 20                   | QPSK       | 100     | 0         | 23.19                 | 23.26                        | 23.11                    | 23.13                         | 23.17                  |                     |          |
| 20                   | 16QAM      | 1       | 0         | 23.35                 | 23.38                        | 23.23                    | 23.39                         | 23.40                  | 24.5                | 1        |
| 20                   | 16QAM      | 1       | 49        | 23.29                 | 23.28                        | 23.23                    | 23.36                         | 23.33                  |                     |          |
| 20                   | 16QAM      | 1       | 99        | 23.35                 | 23.41                        | 23.17                    | 23.36                         | 23.36                  |                     |          |
| 20                   | 16QAM      | 50      | 0         | 22.15                 | 22.22                        | 22.06                    | 22.01                         | 22.09                  | 23.5                | 2        |
| 20                   | 16QAM      | 50      | 24        | 22.10                 | 22.21                        | 22.04                    | 22.10                         | 22.06                  |                     |          |
| 20                   | 16QAM      | 50      | 50        | 22.23                 | 22.27                        | 22.03                    | 22.04                         | 22.01                  |                     |          |
| 20                   | 16QAM      | 100     | 0         | 22.26                 | 22.25                        | 22.11                    | 22.22                         | 22.06                  |                     |          |
| 20                   | 64QAM      | 1       | 0         | 22.33                 | 22.32                        | 22.15                    | 22.11                         | 22.33                  | 23.5                | 2        |
| 20                   | 64QAM      | 1       | 49        | 22.12                 | 22.37                        | 22.30                    | 22.21                         | 22.16                  |                     |          |
| 20                   | 64QAM      | 1       | 99        | 22.33                 | 22.44                        | 22.21                    | 22.25                         | 22.23                  |                     |          |
| 20                   | 64QAM      | 50      | 0         | 21.43                 | 21.48                        | 21.40                    | 21.39                         | 21.41                  | 22.5                | 3        |
| 20                   | 64QAM      | 50      | 24        | 21.35                 | 21.47                        | 21.29                    | 21.28                         | 21.49                  |                     |          |
| 20                   | 64QAM      | 50      | 50        | 21.46                 | 21.59                        | 21.40                    | 21.31                         | 21.27                  |                     |          |
| 20                   | 64QAM      | 100     | 0         | 21.25                 | 21.35                        | 21.34                    | 21.14                         | 21.26                  |                     |          |
| 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         | 23.90                 | 24.13                        | 24.07                    | 23.82                         | 23.92                  | 26                  | 0        |
| 15                   | QPSK       | 1       | 37        | 23.95                 | 24.20                        | 23.90                    | 23.93                         | 23.91                  |                     |          |
| 15                   | QPSK       | 1       | 74        | 24.02                 | 24.03                        | 23.98                    | 23.75                         | 24.03                  |                     |          |
| 15                   | QPSK       | 36      | 0         | 23.09                 | 23.32                        | 23.20                    | 23.06                         | 23.16                  | 24.5                | 1        |
| 15                   | QPSK       | 36      | 20        | 23.04                 | 23.17                        | 23.12                    | 23.28                         | 22.91                  |                     |          |
| 15                   | QPSK       | 36      | 39        | 22.99                 | 23.19                        | 23.13                    | 23.03                         | 23.11                  |                     |          |
| 15                   | QPSK       | 75      | 0         | 23.15                 | 23.17                        | 22.98                    | 22.95                         | 22.99                  |                     |          |
| 15                   | 16QAM      | 1       | 0         | 23.13                 | 23.34                        | 23.06                    | 23.17                         | 23.37                  | 24.5                | 1        |
| 15                   | 16QAM      | 1       | 37        | 23.15                 | 23.21                        | 23.09                    | 23.08                         | 23.14                  |                     |          |
| 15                   | 16QAM      | 1       | 74        | 23.22                 | 23.34                        | 23.13                    | 23.22                         | 23.15                  |                     |          |
| 15                   | 16QAM      | 36      | 0         | 21.97                 | 22.16                        | 21.85                    | 21.94                         | 21.98                  | 23.5                | 2        |
| 15                   | 16QAM      | 36</    |           |                       |                              |                          |                               |                        |                     |          |

Reduced Power Mode for DSIS

| GSM850 Ant1 DSIS     |                           |       |       |                           |                           |       |       |                           |
|----------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
| GSM850<br>TX Channel | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|                      | 163                       | 187   | 251   |                           | 163                       | 187   | 251   |                           |
| Frequency (MHz)      | 854.2                     | 836.4 | 848.8 | 854.2                     | 836.4                     | 848.8 |       |                           |
| GSM 1 Tx slot        | 28.05                     | 27.88 | 27.84 | 28.00                     | 19.05                     | 18.88 | 18.84 | 20.00                     |
| GPRS 1 Tx slot       | 28.10                     | 27.91 | 27.89 | 28.00                     | 19.10                     | 18.91 | 18.89 | 20.00                     |
| GPRS 2 Tx slots      | 25.15                     | 25.19 | 25.18 | 28.00                     | 19.15                     | 19.19 | 19.18 | 20.00                     |
| GPRS 3 Tx slots      | 22.40                     | 22.62 | 22.54 | 24.00                     | 18.14                     | 18.36 | 18.28 | 19.74                     |
| GPRS 4 Tx slots      | 21.49                     | 21.52 | 21.56 | 23.00                     | 18.49                     | 18.52 | 18.56 | 20.00                     |
| EDGE 1 Tx slot       | 21.92                     | 22.04 | 21.92 | 23.50                     | 12.92                     | 13.04 | 12.92 | 14.50                     |
| EDGE 2 Tx slots      | 19.47                     | 19.85 | 19.59 | 23.50                     | 13.47                     | 13.85 | 13.59 | 14.50                     |
| EDGE 3 Tx slots      | 17.99                     | 17.79 | 17.88 | 18.50                     | 13.73                     | 13.53 | 13.62 | 14.24                     |
| EDGE 4 Tx slots      | 16.19                     | 16.14 | 16.15 | 17.50                     | 13.19                     | 13.14 | 13.15 | 14.50                     |

| GSM1900 Ant1 DSIS     |                           |       |        |                           |                           |        |       |                           |
|-----------------------|---------------------------|-------|--------|---------------------------|---------------------------|--------|-------|---------------------------|
| GSM1900<br>TX Channel | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |        |       | Tune-up<br>Limit<br>(dBm) |
|                       | 1512                      | 861   | 810    |                           | 1512                      | 861    | 810   |                           |
| Frequency (MHz)       | 1852.2                    | 1850  | 1853.2 | 1852.2                    | 1851                      | 1851.8 |       |                           |
| GSM 1 Tx slot         | 28.01                     | 28.29 | 29.22  | 29.60                     | 19.01                     | 19.29  | 19.22 | 20.50                     |
| GPRS 1 Tx slot        | 28.05                     | 28.31 | 28.29  | 28.50                     | 19.05                     | 19.31  | 19.29 | 20.50                     |
| GPRS 2 Tx slots       | 25.55                     | 25.97 | 25.81  | 27.00                     | 19.55                     | 19.97  | 19.81 | 21.00                     |
| GPRS 3 Tx slots       | 23.87                     | 23.88 | 23.52  | 24.50                     | 18.41                     | 18.62  | 18.66 | 20.24                     |
| GPRS 4 Tx slots       | 22.37                     | 22.81 | 22.66  | 23.00                     | 18.37                     | 18.81  | 18.66 | 20.00                     |
| EDGE 1 Tx slot        | 24.52                     | 24.33 | 24.64  | 25.50                     | 15.52                     | 15.33  | 15.64 | 16.50                     |
| EDGE 2 Tx slots       | 21.54                     | 21.21 | 21.59  | 22.00                     | 15.54                     | 15.21  | 15.59 | 16.00                     |
| EDGE 3 Tx slots       | 18.46                     | 18.12 | 18.48  | 20.00                     | 15.20                     | 14.86  | 15.23 | 16.74                     |
| EDGE 4 Tx slots       | 18.58                     | 18.41 | 18.45  | 19.00                     | 15.66                     | 15.41  | 15.45 | 16.00                     |

| Band            | WCDMA # Ant1 DSIS      |       |        |        | WCDMA IV Ant1 DSIS        |       |       | WCDMA V Ant1 Default |                           |        |       |       |                           |
|-----------------|------------------------|-------|--------|--------|---------------------------|-------|-------|----------------------|---------------------------|--------|-------|-------|---------------------------|
|                 | TX Channel             | 9062  | 9400   | 9538   | Tune-up<br>Limit<br>(dBm) | 1312  | 1413  | 1513                 | Tune-up<br>Limit<br>(dBm) | 4132   | 4182  | 4233  | Tune-up<br>Limit<br>(dBm) |
| Frequency (MHz) | 1852.2                 | 1850  | 1853.2 | 1852.2 | 1527                      | 1633  | 1738  | 1712.4               | 1732.6                    | 1752.6 | 4359  | 4407  | 4456                      |
| 3GPP Rel 99     | AMR 12.2kbps           | 21.17 | 21.32  | 21.25  | 22.50                     | 21.24 | 21.32 | 21.20                | 22.50                     | 23.55  | 23.68 | 23.81 | 25.00                     |
| 3GPP Rel 99     | RMC 12.2kbps           | 21.24 | 21.38  | 21.28  | 22.50                     | 21.42 | 21.43 | 21.36                | 22.50                     | 23.56  | 23.69 | 23.65 | 26.00                     |
| 3GPP Rel 6      | HSDPA Subtest-1        | 20.16 | 20.29  | 20.21  | 21.50                     | 20.25 | 20.40 | 20.35                | 21.50                     | 22.68  | 22.75 | 22.71 | 24.00                     |
| 3GPP Rel 6      | HSDPA Subtest-2        | 20.19 | 20.22  | 20.14  | 21.50                     | 20.27 | 20.30 | 20.24                | 21.50                     | 22.63  | 22.66 | 22.66 | 24.00                     |
| 3GPP Rel 6      | HSDPA Subtest-3        | 19.67 | 19.77  | 19.72  | 21.00                     | 19.77 | 19.98 | 19.81                | 21.00                     | 22.15  | 22.19 | 22.19 | 23.50                     |
| 3GPP Rel 6      | HSDPA Subtest-4        | 19.58 | 19.76  | 19.65  | 21.00                     | 19.72 | 19.89 | 19.75                | 21.00                     | 22.12  | 22.21 | 22.11 | 23.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1     | 20.08 | 20.16  | 20.20  | 21.50                     | 20.25 | 20.28 | 20.26                | 21.50                     | 22.63  | 22.68 | 22.66 | 24.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2     | 20.09 | 20.14  | 20.13  | 21.50                     | 20.20 | 20.25 | 20.26                | 21.50                     | 22.54  | 22.58 | 22.53 | 24.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3     | 19.58 | 19.77  | 19.59  | 21.00                     | 19.73 | 19.79 | 19.75                | 21.00                     | 22.02  | 22.19 | 22.03 | 23.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4     | 19.57 | 19.68  | 19.58  | 21.00                     | 19.72 | 19.73 | 19.74                | 21.00                     | 22.00  | 22.14 | 22.04 | 23.50                     |
| 3GPP Rel 6      | HSUPA Subtest-1        | 20.09 | 20.10  | 20.12  | 21.50                     | 20.17 | 20.30 | 20.18                | 21.50                     | 22.65  | 22.62 | 22.60 | 24.00                     |
| 3GPP Rel 6      | HSUPA Subtest-2        | 18.19 | 18.27  | 18.28  | 19.50                     | 18.33 | 18.42 | 18.25                | 19.50                     | 20.69  | 20.77 | 20.81 | 22.00                     |
| 3GPP Rel 6      | HSUPA Subtest-3        | 19.32 | 19.39  | 19.29  | 20.50                     | 19.34 | 19.43 | 19.40                | 20.50                     | 21.72  | 21.73 | 21.75 | 23.00                     |
| 3GPP Rel 6      | HSUPA Subtest-4        | 18.04 | 18.19  | 18.10  | 19.50                     | 18.14 | 18.30 | 18.27                | 19.50                     | 20.58  | 20.69 | 20.60 | 22.00                     |
| 3GPP Rel 6      | HSUPA Subtest-5        | 20.05 | 20.11  | 20.03  | 21.50                     | 20.19 | 20.28 | 20.17                | 21.50                     | 22.59  | 22.63 | 22.64 | 24.00                     |
| 3GPP Rel 7      | HSPA+ (HSPA) Subtest-1 | 17.66 | 17.80  | 17.69  | 18.00                     | 17.62 | 18.01 | 17.86                | 19.00                     | 20.16  | 20.36 | 20.20 | 21.50                     |



| Band 2 Ant1 DSI5 |            |         |           |                     |                        |                      |               |          |  |  |
|------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------|----------|--|--|
| BW (MHz)         | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Tune-up (dBm) | MPR (dB) |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 20               | QPSK       | 1       | 0         | 21.50               | 21.73                  | 21.49                |               |          |  |  |
| 20               | QPSK       | 1       | 49        | 21.50               | 21.63                  | 21.45                | 23            | 0        |  |  |
| 20               | QPSK       | 1       | 99        | 21.50               | 21.66                  | 21.42                |               |          |  |  |
| 20               | QPSK       | 50      | 0         | 21.55               | 21.72                  | 21.50                |               |          |  |  |
| 20               | QPSK       | 50      | 24        | 21.51               | 21.59                  | 21.40                | 23            | 0        |  |  |
| 20               | QPSK       | 50      | 50        | 21.52               | 21.62                  | 21.46                |               |          |  |  |
| 20               | QPSK       | 100     | 0         | 21.54               | 21.70                  | 21.46                |               |          |  |  |
| 20               | 16QAM      | 1       | 0         | 21.51               | 21.68                  | 21.45                |               |          |  |  |
| 20               | 16QAM      | 1       | 49        | 21.59               | 21.66                  | 21.43                | 23            | 0        |  |  |
| 20               | 16QAM      | 1       | 99        | 21.51               | 21.72                  | 21.43                |               |          |  |  |
| 20               | 16QAM      | 50      | 0         | 21.54               | 21.65                  | 21.50                |               |          |  |  |
| 20               | 16QAM      | 50      | 24        | 21.51               | 21.62                  | 21.41                | 23            | 0        |  |  |
| 20               | 16QAM      | 50      | 50        | 21.55               | 21.62                  | 21.46                |               |          |  |  |
| 20               | 16QAM      | 100     | 0         | 21.57               | 21.67                  | 21.46                |               |          |  |  |
| 20               | 64QAM      | 1       | 0         | 21.50               | 21.65                  | 21.45                |               |          |  |  |
| 20               | 64QAM      | 1       | 49        | 21.58               | 21.65                  | 21.44                | 23            | 0        |  |  |
| 20               | 64QAM      | 1       | 99        | 21.53               | 21.62                  | 21.42                |               |          |  |  |
| 20               | 64QAM      | 50      | 0         | 20.97               | 21.11                  | 20.98                |               |          |  |  |
| 20               | 64QAM      | 50      | 24        | 20.93               | 21.00                  | 20.91                | 22.5          | 0.5      |  |  |
| 20               | 64QAM      | 50      | 50        | 20.90               | 21.03                  | 20.89                |               |          |  |  |
| 20               | 64QAM      | 100     | 0         | 20.80               | 20.90                  | 20.84                |               |          |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 15               | QPSK       | 1       | 0         | 21.46               | 21.63                  | 21.38                |               |          |  |  |
| 15               | QPSK       | 1       | 37        | 21.34               | 21.52                  | 21.30                | 23            | 0        |  |  |
| 15               | QPSK       | 1       | 74        | 21.50               | 21.54                  | 21.34                |               |          |  |  |
| 15               | QPSK       | 36      | 0         | 21.50               | 21.60                  | 21.43                |               |          |  |  |
| 15               | QPSK       | 36      | 20        | 21.47               | 21.53                  | 21.31                | 23            | 0        |  |  |
| 15               | QPSK       | 36      | 39        | 21.42               | 21.56                  | 21.33                |               |          |  |  |
| 15               | QPSK       | 75      | 0         | 21.46               | 21.60                  | 21.31                |               |          |  |  |
| 15               | 16QAM      | 1       | 0         | 21.44               | 21.54                  | 21.34                |               |          |  |  |
| 15               | 16QAM      | 1       | 37        | 21.47               | 21.53                  | 21.33                | 23            | 0        |  |  |
| 15               | 16QAM      | 1       | 74        | 21.38               | 21.66                  | 21.30                |               |          |  |  |
| 15               | 16QAM      | 36      | 0         | 21.47               | 21.54                  | 21.39                |               |          |  |  |
| 15               | 16QAM      | 36      | 20        | 21.39               | 21.56                  | 21.26                | 23            | 0        |  |  |
| 15               | 16QAM      | 36      | 39        | 21.47               | 21.53                  | 21.31                |               |          |  |  |
| 15               | 16QAM      | 75      | 0         | 21.41               | 21.53                  | 21.36                |               |          |  |  |
| 15               | 16QAM      | 1       | 0         | 21.41               | 21.58                  | 21.32                |               |          |  |  |
| 15               | 16QAM      | 1       | 37        | 21.52               | 21.60                  | 21.32                | 23            | 0        |  |  |
| 15               | 16QAM      | 1       | 74        | 21.47               | 21.53                  | 21.36                |               |          |  |  |
| 15               | 64QAM      | 1       | 0         | 20.86               | 21.02                  | 20.85                |               |          |  |  |
| 15               | 64QAM      | 36      | 20        | 20.77               | 20.86                  | 20.83                | 22.5          | 0.5      |  |  |
| 15               | 64QAM      | 36      | 39        | 20.80               | 20.90                  | 20.76                |               |          |  |  |
| 15               | 64QAM      | 75      | 0         | 20.76               | 20.76                  | 20.71                |               |          |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 10               | QPSK       | 1       | 0         | 21.51               | 21.67                  | 21.44                |               |          |  |  |
| 10               | QPSK       | 1       | 25        | 21.34               | 21.49                  | 21.33                | 23            | 0        |  |  |
| 10               | QPSK       | 1       | 49        | 21.52               | 21.52                  | 21.30                |               |          |  |  |
| 10               | QPSK       | 25      | 0         | 21.41               | 21.60                  | 21.40                |               |          |  |  |
| 10               | QPSK       | 25      | 12        | 21.47               | 21.57                  | 21.36                | 23            | 0        |  |  |
| 10               | QPSK       | 25      | 25        | 21.38               | 21.55                  | 21.33                |               |          |  |  |
| 10               | QPSK       | 50      | 0         | 21.45               | 21.58                  | 21.35                |               |          |  |  |
| 10               | 16QAM      | 1       | 0         | 21.40               | 21.55                  | 21.29                |               |          |  |  |
| 10               | 16QAM      | 1       | 25        | 21.46               | 21.54                  | 21.33                | 23            | 0        |  |  |
| 10               | 16QAM      | 1       | 49        | 21.44               | 21.62                  | 21.33                |               |          |  |  |
| 10               | 16QAM      | 25      | 0         | 21.41               | 21.54                  | 21.26                |               |          |  |  |
| 10               | 16QAM      | 25      | 12        | 21.45               | 21.50                  | 21.27                | 23            | 0        |  |  |
| 10               | 16QAM      | 25      | 25        | 21.47               | 21.47                  | 21.30                |               |          |  |  |
| 10               | 16QAM      | 50      | 0         | 21.49               | 21.57                  | 21.38                |               |          |  |  |
| 10               | 64QAM      | 1       | 0         | 21.44               | 21.59                  | 21.35                |               |          |  |  |
| 10               | 64QAM      | 1       | 25        | 21.42               | 21.60                  | 21.39                | 23            | 0        |  |  |
| 10               | 64QAM      | 1       | 49        | 21.48               | 21.62                  | 21.33                |               |          |  |  |
| 10               | 64QAM      | 25      | 0         | 21.43               | 21.54                  | 21.26                |               |          |  |  |
| 10               | 64QAM      | 25      | 12        | 21.45               | 21.51                  | 21.27                | 23            | 0        |  |  |
| 10               | 64QAM      | 25      | 25        | 21.38               | 21.54                  | 21.24                |               |          |  |  |
| 10               | 64QAM      | 50      | 0         | 21.32               | 21.57                  | 21.41                |               |          |  |  |
| 10               | 64QAM      | 1       | 0         | 21.42               | 21.55                  | 21.41                |               |          |  |  |
| 10               | 64QAM      | 1       | 25        | 21.41               | 21.62                  | 21.49                | 23            | 0        |  |  |
| 10               | 64QAM      | 1       | 49        | 21.30               | 21.65                  | 21.38                |               |          |  |  |
| 10               | 64QAM      | 1       | 21        | 21.34               | 21.56                  | 21.41                |               |          |  |  |
| 10               | 64QAM      | 1       | 37        | 21.38               | 21.57                  | 21.49                | 23            | 0        |  |  |
| 10               | 64QAM      | 1       | 74        | 21.35               | 21.60                  | 21.48                |               |          |  |  |
| 10               | 64QAM      | 36      | 0         | 21.28               | 21.28                  | 20.95                |               |          |  |  |
| 10               | 64QAM      | 36      | 20        | 21.30               | 21.40                  | 20.84                | 22.5          | 0.5      |  |  |
| 10               | 64QAM      | 36      | 39        | 21.30               | 21.03                  | 20.94                |               |          |  |  |
| 10               | 64QAM      | 75      | 0         | 21.29               | 21.17                  | 21.00                |               |          |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 5                | QPSK       | 1       | 0         | 21.35               | 21.63                  | 21.43                |               |          |  |  |
| 5                | QPSK       | 1       | 12        | 21.31               | 21.55                  | 21.40                | 23            | 0        |  |  |
| 5                | QPSK       | 1       | 24        | 21.33               | 21.63                  | 21.38                |               |          |  |  |
| 5                | QPSK       | 12      | 0         | 21.44               | 21.56                  | 21.34                |               |          |  |  |
| 5                | QPSK       | 12      | 7         | 21.34               | 21.64                  | 21.34                | 23            | 0        |  |  |
| 5                | QPSK       | 12      | 13        | 21.35               | 21.58                  | 21.45                |               |          |  |  |
| 5                | QPSK       | 25      | 0         | 21.31               | 21.62                  | 21.41                |               |          |  |  |
| 5                | 16QAM      | 1       | 0         | 21.37               | 21.46                  | 21.41                |               |          |  |  |
| 5                | 16QAM      | 1       | 12        | 21.41               | 21.55                  | 21.40                | 23            | 0        |  |  |
| 5                | 16QAM      | 1       | 24        | 21.29               | 21.56                  | 21.41                |               |          |  |  |
| 5                | 16QAM      | 12      | 0         | 21.30               | 21.60                  | 21.53                |               |          |  |  |
| 5                | 16QAM      | 12      | 7         | 21.34               | 21.59                  | 21.43                | 23            | 0        |  |  |
| 5                | 16QAM      | 12      | 13        | 21.33               | 21.51                  | 21.37                |               |          |  |  |
| 5                | 16QAM      | 25      | 0         | 21.31               | 21.56                  | 21.43                |               |          |  |  |
| 5                | 16QAM      | 25      | 12        | 21.34               | 21.50                  | 21.38                | 23            | 0        |  |  |
| 5                | 64QAM      | 1       | 0         | 21.24               | 21.62                  | 21.48                |               |          |  |  |
| 5                | 64QAM      | 1       | 24        | 21.31               | 21.61                  | 21.42                |               |          |  |  |
| 5                | 64QAM      | 12      | 0         | 21.34               | 21.25                  | 21.01                |               |          |  |  |
| 5                | 64QAM      | 12      | 7         | 21.28               | 21.11                  | 20.86                | 22.5          | 0.5      |  |  |
| 5                | 64QAM      | 12      | 13        | 20.89               | 21.03                  | 20.96                |               |          |  |  |
| 5                | 64QAM      | 25      | 0         | 21.30               | 21.13                  | 21.01                |               |          |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 3                | QPSK       | 1       | 0         | 21.30               | 21.62                  | 21.39                |               |          |  |  |
| 3                | QPSK       | 1       | 8         | 21.30               | 21.56                  | 21.46                | 23            | 0        |  |  |
| 3                | QPSK       | 1       | 14        | 21.26               | 21.61                  | 21.36                |               |          |  |  |
| 3                | QPSK       | 8       | 0         | 21.42               | 21.63                  | 21.43                |               |          |  |  |
| 3                | QPSK       | 8       | 7         | 21.30               | 21.54                  | 21.37                | 23            | 0        |  |  |
| 3                | QPSK       | 8       | 7         | 21.36               | 21.59                  | 21.51                |               |          |  |  |
| 3                | QPSK       | 15      | 0         | 21.28               | 21.59                  | 21.38                |               |          |  |  |
| 3                | 16QAM      | 1       | 0         | 21.42               | 21.53                  | 21.44                |               |          |  |  |
| 3                | 16QAM      | 1       | 8         | 21.39               | 21.60                  | 21.44                | 23            | 0        |  |  |
| 3                | 16QAM      | 1       | 14        | 21.33               | 21.56                  | 21.33                |               |          |  |  |
| 3                | 16QAM      | 8       | 0         | 21.38               | 21.54                  | 21.49                |               |          |  |  |
| 3                | 16QAM      | 8       | 4         | 21.36               | 21.64                  | 21.48                | 23            | 0        |  |  |
| 3                | 16QAM      | 8       | 7         | 21.34               | 21.54                  | 21.49                |               |          |  |  |
| 3                | 16QAM      | 15      | 0         | 21.32               | 21.55                  | 21.41                |               |          |  |  |
| 3                | 64QAM      | 1       | 0         | 21.43               | 21.50                  | 21.42                |               |          |  |  |
| 3                | 64QAM      | 1       | 8         | 21.37               | 21.60                  | 21.47                | 23            | 0        |  |  |
| 3                | 64QAM      | 1       | 14        | 21.30               | 21.63                  | 21.43                |               |          |  |  |
| 3                | 64QAM      | 8       | 0         | 21.33               | 21.16                  | 20.98                |               |          |  |  |
| 3                | 64QAM      | 8       | 4         | 21.20               | 21.08                  | 20.93                | 22.5          | 0.5      |  |  |
| 3                | 64QAM      | 8       | 7         | 21.20               | 21.08                  | 20.94                |               |          |  |  |
| 3                | 64QAM      | 15      | 0         | 21.27               | 21.12                  | 20.98                |               |          |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 1.4              | QPSK       | 1       | 0         | 21.33               | 21.60                  | 21.38                |               |          |  |  |
| 1.4              | QPSK       | 1       | 3         | 21.36               | 21.60                  | 21.40                |               |          |  |  |
| 1.4              | QPSK       | 1       | 5         | 21.24               | 21.57                  | 21.41                | 23            | 0        |  |  |
| 1.4              | QPSK       | 3       | 0         | 21.39               | 21.60                  | 21.37                |               |          |  |  |
| 1.4              | QPSK       | 3       | 1         | 21.37               | 21.57                  | 21.42                |               |          |  |  |
| 1.4              | QPSK       | 3       | 3         | 21.38               | 21.60                  | 21.37                | 23            | 0        |  |  |
| 1.4              | QPSK       | 6       | 0         | 21.38               | 21.65                  | 21.46                |               |          |  |  |
| 1.4              | 16QAM      | 1       | 0         | 21.37               | 21.53                  | 21.36                |               |          |  |  |
| 1.4              | 16QAM      | 1       | 3         | 21.49               | 21.53                  | 21.30                | 23            | 0        |  |  |
| 1.4              | 16QAM      | 1       | 5         | 21.46               | 21.58                  | 21.31                |               |          |  |  |
| 1.4              | 16QAM      | 3       | 0         | 21.44               | 21.54                  | 21.35                |               |          |  |  |
| 1.4              | 16QAM      | 3       | 1         |                     |                        |                      |               |          |  |  |



| Band 13 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              |            |         |           | 23259                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |            |         |           | 782                   |                          |                        |                     |          |  |  |
| 10                   | QPSK       | 1       | 0         | 24.34                 | 24.34                    | 24.13                  |                     |          |  |  |
| 10                   | QPSK       | 1       | 25        | 24.31                 | 24.31                    | 24.13                  | 25.5                | 0        |  |  |
| 10                   | QPSK       | 1       | 49        | 24.23                 | 24.23                    | 24.13                  |                     |          |  |  |
| 10                   | QPSK       | 25      | 0         | 23.31                 | 23.31                    | 23.06                  |                     |          |  |  |
| 10                   | QPSK       | 25      | 12        | 23.16                 | 23.16                    | 23.06                  | 24.5                | 1        |  |  |
| 10                   | QPSK       | 25      | 25        | 23.27                 | 23.27                    | 23.06                  |                     |          |  |  |
| 10                   | QPSK       | 50      | 0         | 23.32                 | 23.32                    | 23.14                  |                     |          |  |  |
| 10                   | 16QAM      | 1       | 0         | 23.31                 | 23.31                    | 23.11                  |                     |          |  |  |
| 10                   | 16QAM      | 1       | 25        | 23.18                 | 23.18                    | 23.06                  | 24.5                | 1        |  |  |
| 10                   | 16QAM      | 1       | 49        | 23.28                 | 23.28                    | 23.04                  |                     |          |  |  |
| 10                   | 16QAM      | 25      | 0         | 22.31                 | 22.31                    | 22.00                  |                     |          |  |  |
| 10                   | 16QAM      | 25      | 12        | 22.17                 | 22.17                    | 22.00                  | 23.5                | 2        |  |  |
| 10                   | 16QAM      | 25      | 25        | 22.26                 | 22.26                    | 21.96                  |                     |          |  |  |
| 10                   | 16QAM      | 50      | 0         | 22.36                 | 22.36                    | 22.02                  |                     |          |  |  |
| 10                   | 64QAM      | 1       | 0         | 22.23                 | 22.23                    | 22.13                  |                     |          |  |  |
| 10                   | 64QAM      | 1       | 25        | 22.10                 | 22.10                    | 22.02                  | 23.5                | 2        |  |  |
| 10                   | 64QAM      | 1       | 49        | 22.20                 | 22.20                    | 22.06                  |                     |          |  |  |
| 10                   | 64QAM      | 25      | 0         | 21.37                 | 21.37                    | 21.03                  |                     |          |  |  |
| 10                   | 64QAM      | 25      | 12        | 21.31                 | 21.31                    | 21.03                  | 22.5                | 3        |  |  |
| 10                   | 64QAM      | 25      | 25        | 21.26                 | 21.26                    | 20.90                  |                     |          |  |  |
| 10                   | 64QAM      | 50      | 0         | 21.29                 | 21.29                    | 21.08                  |                     |          |  |  |
| Channel              |            |         |           | 23205                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |            |         |           | 779.5                 |                          |                        |                     |          |  |  |
| 5                    | QPSK       | 1       | 0         | 24.15                 | 24.19                    | 24.13                  |                     |          |  |  |
| 5                    | QPSK       | 1       | 12        | 24.20                 | 24.14                    | 24.13                  | 25.5                | 0        |  |  |
| 5                    | QPSK       | 1       | 24        | 24.08                 | 24.19                    | 24.07                  |                     |          |  |  |
| 5                    | QPSK       | 12      | 0         | 23.24                 | 23.13                    | 23.27                  |                     |          |  |  |
| 5                    | QPSK       | 12      | 7         | 22.97                 | 23.10                    | 23.07                  | 24.5                | 1        |  |  |
| 5                    | QPSK       | 12      | 13        | 23.21                 | 23.18                    | 23.24                  |                     |          |  |  |
| 5                    | QPSK       | 25      | 0         | 23.19                 | 23.10                    | 23.28                  |                     |          |  |  |
| 5                    | 16QAM      | 1       | 0         | 23.12                 | 23.12                    | 23.27                  |                     |          |  |  |
| 5                    | 16QAM      | 1       | 12        | 22.98                 | 23.15                    | 23.15                  | 24.5                | 1        |  |  |
| 5                    | 16QAM      | 1       | 24        | 23.23                 | 23.21                    | 23.12                  |                     |          |  |  |
| 5                    | 16QAM      | 12      | 0         | 22.14                 | 22.10                    | 22.20                  |                     |          |  |  |
| 5                    | 16QAM      | 12      | 7         | 22.14                 | 22.11                    | 21.99                  | 23.5                | 2        |  |  |
| 5                    | 16QAM      | 12      | 13        | 22.16                 | 22.22                    | 22.12                  |                     |          |  |  |
| 5                    | 16QAM      | 25      | 0         | 22.31                 | 22.30                    | 22.31                  |                     |          |  |  |
| 5                    | 64QAM      | 1       | 0         | 22.02                 | 22.06                    | 22.20                  |                     |          |  |  |
| 5                    | 64QAM      | 1       | 12        | 21.96                 | 22.03                    | 21.96                  | 23.5                | 2        |  |  |
| 5                    | 64QAM      | 1       | 24        | 22.15                 | 22.04                    | 22.11                  |                     |          |  |  |
| 5                    | 64QAM      | 12      | 0         | 21.34                 | 21.29                    | 21.32                  |                     |          |  |  |
| 5                    | 64QAM      | 12      | 7         | 21.22                 | 21.09                    | 21.21                  | 22.5                | 3        |  |  |
| 5                    | 64QAM      | 12      | 13        | 21.09                 | 21.14                    | 21.12                  |                     |          |  |  |
| 5                    | 64QAM      | 25      | 0         | 21.23                 | 21.23                    | 21.19                  |                     |          |  |  |

| Band 26 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              |            |         |           | 26765                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |            |         |           | 821.5                 |                          |                        |                     |          |  |  |
| 15                   | QPSK       | 1       | 0         | 24.02                 | 24.41                    | 24.19                  |                     |          |  |  |
| 15                   | QPSK       | 1       | 37        | 23.92                 | 24.29                    | 24.14                  | 25.5                | 0        |  |  |
| 15                   | QPSK       | 1       | 74        | 23.97                 | 24.28                    | 24.08                  |                     |          |  |  |
| 15                   | QPSK       | 36      | 0         | 22.98                 | 23.11                    | 23.06                  |                     |          |  |  |
| 15                   | QPSK       | 36      | 20        | 22.87                 | 23.00                    | 23.00                  | 24.5                | 1        |  |  |
| 15                   | QPSK       | 36      | 39        | 22.86                 | 22.97                    | 23.01                  |                     |          |  |  |
| 15                   | QPSK       | 75      | 0         | 23.01                 | 23.15                    | 23.14                  |                     |          |  |  |
| 15                   | 16QAM      | 1       | 0         | 23.02                 | 23.17                    | 23.11                  |                     |          |  |  |
| 15                   | 16QAM      | 1       | 37        | 22.87                 | 23.03                    | 23.06                  | 24.5                | 1        |  |  |
| 15                   | 16QAM      | 1       | 74        | 22.93                 | 23.08                    | 23.04                  |                     |          |  |  |
| 15                   | 16QAM      | 36      | 0         | 22.02                 | 22.20                    | 22.00                  |                     |          |  |  |
| 15                   | 16QAM      | 36      | 20        | 21.91                 | 22.12                    | 21.95                  | 23.5                | 2        |  |  |
| 15                   | 16QAM      | 36      | 39        | 21.94                 | 22.16                    | 21.96                  |                     |          |  |  |
| 15                   | 16QAM      | 75      | 0         | 21.87                 | 22.17                    | 22.02                  |                     |          |  |  |
| 15                   | 64QAM      | 1       | 0         | 22.02                 | 22.12                    | 22.13                  |                     |          |  |  |
| 15                   | 64QAM      | 1       | 37        | 21.92                 | 22.00                    | 22.02                  | 23.5                | 2        |  |  |
| 15                   | 64QAM      | 1       | 74        | 21.99                 | 22.04                    | 22.05                  |                     |          |  |  |
| 15                   | 64QAM      | 36      | 0         | 20.78                 | 20.94                    | 20.85                  |                     |          |  |  |
| 15                   | 64QAM      | 36      | 39        | 20.69                 | 21.04                    | 20.90                  | 22.5                | 3        |  |  |
| 15                   | 64QAM      | 75      | 0         | 20.88                 | 21.08                    | 21.08                  |                     |          |  |  |
| Channel              |            |         |           | 26780                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |            |         |           | 819                   |                          |                        |                     |          |  |  |
| 10                   | QPSK       | 1       | 0         | 23.86                 | 24.38                    | 23.98                  |                     |          |  |  |
| 10                   | QPSK       | 1       | 25        | 23.80                 | 24.24                    | 23.92                  | 25.5                | 0        |  |  |
| 10                   | QPSK       | 1       | 49        | 23.89                 | 24.10                    | 23.92                  |                     |          |  |  |
| 10                   | QPSK       | 25      | 0         | 22.89                 | 22.98                    | 23.00                  |                     |          |  |  |
| 10                   | QPSK       | 25      | 12        | 22.67                 | 22.85                    | 22.82                  | 24.5                | 1        |  |  |
| 10                   | QPSK       | 25      | 25        | 22.81                 | 22.85                    | 22.79                  |                     |          |  |  |
| 10                   | QPSK       | 50      | 0         | 22.92                 | 23.11                    | 23.11                  |                     |          |  |  |
| 10                   | 16QAM      | 1       | 0         | 23.80                 | 24.25                    | 23.92                  |                     |          |  |  |
| 10                   | 16QAM      | 1       | 25        | 22.72                 | 22.82                    | 22.87                  | 24.5                | 1        |  |  |
| 10                   | 16QAM      | 1       | 49        | 22.89                 | 22.93                    | 22.94                  |                     |          |  |  |
| 10                   | 16QAM      | 25      | 0         | 21.83                 | 22.15                    | 21.96                  |                     |          |  |  |
| 10                   | 16QAM      | 25      | 12        | 21.70                 | 22.10                    | 21.91                  | 23.5                | 2        |  |  |
| 10                   | 16QAM      | 25      | 25        | 21.78                 | 22.11                    | 21.85                  |                     |          |  |  |
| 10                   | 16QAM      | 50      | 0         | 21.80                 | 22.09                    | 21.98                  |                     |          |  |  |
| 10                   | 64QAM      | 1       | 0         | 21.91                 | 22.05                    | 21.94                  |                     |          |  |  |
| 10                   | 64QAM      | 1       | 25        | 21.89                 | 21.85                    | 21.90                  | 23.5                | 2        |  |  |
| 10                   | 64QAM      | 1       | 49        | 21.78                 | 22.02                    | 21.93                  |                     |          |  |  |
| 10                   | 64QAM      | 25      | 0         | 20.75                 | 21.04                    | 20.82                  |                     |          |  |  |
| 10                   | 64QAM      | 25      | 12        | 20.68                 | 20.92                    | 20.80                  | 22.5                | 3        |  |  |
| 10                   | 64QAM      | 25      | 25        | 20.58                 | 20.86                    | 20.73                  |                     |          |  |  |
| 10                   | 64QAM      | 50      | 0         | 20.60                 | 20.80                    | 20.65                  |                     |          |  |  |
| Channel              |            |         |           | 26715                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |            |         |           | 816.5                 |                          |                        |                     |          |  |  |
| 5                    | QPSK       | 1       | 0         | 23.82                 | 24.26                    | 24.13                  |                     |          |  |  |
| 5                    | QPSK       | 1       | 12        | 23.81                 | 24.26                    | 24.08                  | 25.5                | 0        |  |  |
| 5                    | QPSK       | 1       | 24        | 23.83                 | 24.15                    | 23.93                  |                     |          |  |  |
| 5                    | QPSK       | 12      | 0         | 22.95                 | 23.03                    | 22.91                  |                     |          |  |  |
| 5                    | QPSK       | 12      | 7         | 22.80                 | 22.88                    | 22.90                  | 24.5                | 1        |  |  |
| 5                    | QPSK       | 12      | 13        | 22.78                 | 22.83                    | 22.86                  |                     |          |  |  |
| 5                    | QPSK       | 25      | 0         | 22.88                 | 23.04                    | 22.99                  |                     |          |  |  |
| 5                    | 16QAM      | 1       | 0         | 22.85                 | 23.01                    | 22.91                  |                     |          |  |  |
| 5                    | 16QAM      | 1       | 12        | 22.66                 | 22.93                    | 23.00                  | 24.5                | 1        |  |  |
| 5                    | 16QAM      | 1       | 24        | 22.82                 | 22.87                    | 23.00                  |                     |          |  |  |
| 5                    | 16QAM      | 12      | 0         | 21.96                 | 22.25                    | 21.80                  |                     |          |  |  |
| 5                    | 16QAM      | 12      | 7         | 21.74                 | 21.93                    | 21.84                  | 23.5                | 2        |  |  |
| 5                    | 16QAM      | 12      | 13        | 21.90                 | 21.96                    | 21.83                  |                     |          |  |  |
| 5                    | 16QAM      | 25      | 0         | 21.82                 | 22.03                    | 21.88                  |                     |          |  |  |
| 5                    | 64QAM      | 1       | 0         | 21.85                 | 21.98                    | 21.91                  |                     |          |  |  |
| 5                    | 64QAM      | 1       | 12        | 21.86                 | 21.95                    | 21.98                  | 23.5                | 2        |  |  |
| 5                    | 64QAM      | 1       | 24        | 21.82                 | 21.84                    | 22.02                  |                     |          |  |  |
| 5                    | 64QAM      | 12      | 0         | 20.61                 | 20.86                    | 20.85                  |                     |          |  |  |
| 5                    | 64QAM      | 12      | 7         | 20.69                 | 20.75                    | 20.75                  | 22.5                | 3        |  |  |
| 5                    | 64QAM      | 12      | 13        | 20.65                 | 20.88                    | 20.84                  |                     |          |  |  |
| 5                    | 64QAM      | 25      | 0         | 20.73                 | 20.99                    | 20.98                  |                     |          |  |  |
| Channel              |            |         |           | 26705                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |            |         |           | 815.5                 |                          |                        |                     |          |  |  |
| 3                    | QPSK       | 1       | 0         | 23.91                 | 24.32                    | 24.00                  |                     |          |  |  |
| 3                    | QPSK       | 1       | 8         | 23.83                 | 24.25                    | 24.04                  | 25.5                | 0        |  |  |
| 3                    | QPSK       | 1       | 14        | 23.88                 | 24.17                    | 23.91                  |                     |          |  |  |
| 3                    | QPSK       | 8       | 0         | 22.77                 | 22.99                    | 22.85                  |                     |          |  |  |
| 3                    | QPSK       | 8       | 4         | 22.78                 | 22.87                    | 22.80                  | 24.5                | 1        |  |  |
| 3                    | QPSK       | 8       | 7         | 22.81                 | 22.88                    | 22.81                  |                     |          |  |  |
| 3                    | QPSK       | 15      | 0         | 22.98                 | 23.01                    | 23.06                  |                     |          |  |  |
| 3                    | 16QAM      | 1       | 0         | 23.00                 | 23.96                    | 23.05                  |                     |          |  |  |
| 3                    | 16QAM      | 1       | 8         | 22.81                 | 22.89                    | 22.91                  | 24.5                | 1        |  |  |
| 3                    | 16QAM      | 1       | 14        | 22.78                 | 23.05                    | 22.92                  |                     |          |  |  |
| 3                    | 16QAM      | 8       | 0         | 21.90                 | 22.02                    | 21.96                  |                     |          |  |  |
| 3                    | 16QAM      | 8       | 4         | 21.79                 | 21.91                    | 21.83                  | 23.5                | 2        |  |  |
| 3                    | 16QAM      | 8       | 7         | 21.76                 | 22.11                    | 21.83                  |                     |          |  |  |
| 3                    | 16QAM      | 15      | 0         | 21.70                 | 21.98                    | 21.87                  |                     |          |  |  |
| 3                    | 64QAM      | 1       | 0         | 21.87                 | 22.06                    | 22.11                  |                     |          |  |  |
| 3                    | 64QAM      | 1       | 8         | 21.85                 | 21.87                    | 21.82                  | 23.5                | 2        |  |  |
| 3                    | 64QAM      | 1       |           |                       |                          |                        |                     |          |  |  |

| Band 38 Ant1 DSI5 |            |         |           |                       |                          |                        |                     |          |  |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]          | 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         | 22.34                 | 22.53                    | 22.37                  | 24                  | 0        |  |  |
| 20                | QPSK       | 1       | 49        | 22.45                 | 22.50                    | 22.41                  |                     |          |  |  |
| 20                | QPSK       | 1       | 99        | 22.35                 | 22.45                    | 22.44                  |                     |          |  |  |
| 20                | QPSK       | 50      | 0         | 22.33                 | 22.50                    | 22.37                  | 24                  | 0        |  |  |
| 20                | QPSK       | 50      | 24        | 22.36                 | 22.47                    | 22.34                  |                     |          |  |  |
| 20                | QPSK       | 50      | 50        | 22.34                 | 22.44                    | 22.45                  |                     |          |  |  |
| 20                | QPSK       | 100     | 0         | 22.30                 | 22.46                    | 22.40                  | 24                  | 0        |  |  |
| 20                | 16QAM      | 1       | 0         | 22.27                 | 22.48                    | 22.36                  |                     |          |  |  |
| 20                | 16QAM      | 1       | 49        | 22.30                 | 22.41                    | 22.44                  |                     |          |  |  |
| 20                | 16QAM      | 1       | 99        | 22.34                 | 22.45                    | 22.36                  | 23                  | 1        |  |  |
| 20                | 16QAM      | 50      | 0         | 21.54                 | 21.66                    | 21.56                  |                     |          |  |  |
| 20                | 16QAM      | 50      | 24        | 21.56                 | 21.46                    | 21.45                  |                     |          |  |  |
| 20                | 16QAM      | 50      | 50        | 21.53                 | 21.54                    | 21.53                  | 23                  | 1        |  |  |
| 20                | 16QAM      | 100     | 0         | 21.46                 | 21.66                    | 21.55                  |                     |          |  |  |
| 20                | 16QAM      | 1       | 0         | 21.67                 | 21.67                    | 21.71                  |                     |          |  |  |
| 20                | 64QAM      | 1       | 49        | 21.52                 | 21.68                    | 21.62                  | 23                  | 1        |  |  |
| 20                | 64QAM      | 1       | 99        | 21.32                 | 21.46                    | 21.56                  |                     |          |  |  |
| 20                | 64QAM      | 50      | 0         | 21.10                 | 21.20                    | 21.15                  |                     |          |  |  |
| 20                | 64QAM      | 50      | 24        | 21.01                 | 21.09                    | 21.09                  | 22                  | 2        |  |  |
| 20                | 64QAM      | 50      | 50        | 20.99                 | 21.12                    | 21.08                  |                     |          |  |  |
| 20                | 64QAM      | 100     | 0         | 21.07                 | 21.19                    | 21.10                  |                     |          |  |  |
| Channel           |            |         |           | 37825                 | 38000                    | 38175                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |  |  |
| 15                | QPSK       | 1       | 0         | 22.33                 | 22.45                    | 22.30                  | 24                  | 0        |  |  |
| 15                | QPSK       | 1       | 37        | 22.36                 | 22.37                    | 22.34                  |                     |          |  |  |
| 15                | QPSK       | 1       | 74        | 22.23                 | 22.23                    | 22.35                  |                     |          |  |  |
| 15                | QPSK       | 36      | 0         | 22.35                 | 22.43                    | 22.35                  | 24                  | 0        |  |  |
| 15                | QPSK       | 36      | 20        | 22.30                 | 22.37                    | 22.21                  |                     |          |  |  |
| 15                | QPSK       | 36      | 39        | 22.26                 | 22.31                    | 22.38                  |                     |          |  |  |
| 15                | QPSK       | 75      | 0         | 22.22                 | 22.33                    | 22.36                  | 24                  | 0        |  |  |
| 15                | 16QAM      | 1       | 0         | 22.14                 | 22.37                    | 22.37                  |                     |          |  |  |
| 15                | 16QAM      | 1       | 37        | 22.13                 | 22.42                    | 22.35                  |                     |          |  |  |
| 15                | 16QAM      | 1       | 74        | 22.22                 | 22.23                    | 22.27                  | 23                  | 1        |  |  |
| 15                | 16QAM      | 36      | 0         | 21.43                 | 21.55                    | 21.43                  |                     |          |  |  |
| 15                | 16QAM      | 36      | 20        | 21.43                 | 21.35                    | 21.42                  |                     |          |  |  |
| 15                | 16QAM      | 36      | 39        | 21.44                 | 21.51                    | 21.35                  | 23                  | 1        |  |  |
| 15                | 16QAM      | 75      | 0         | 21.32                 | 21.55                    | 21.45                  |                     |          |  |  |
| 15                | 64QAM      | 1       | 0         | 21.46                 | 21.62                    | 21.57                  |                     |          |  |  |
| 15                | 64QAM      | 1       | 37        | 21.37                 | 21.58                    | 21.41                  | 23                  | 1        |  |  |
| 15                | 64QAM      | 1       | 74        | 21.33                 | 21.43                    | 21.42                  |                     |          |  |  |
| 15                | 64QAM      | 36      | 0         | 21.03                 | 21.10                    | 21.01                  |                     |          |  |  |
| 15                | 64QAM      | 36      | 20        | 20.96                 | 21.00                    | 20.94                  | 22                  | 2        |  |  |
| 15                | 64QAM      | 36      | 39        | 20.91                 | 21.00                    | 20.99                  |                     |          |  |  |
| 15                | 64QAM      | 75      | 0         | 21.03                 | 21.14                    | 21.00                  |                     |          |  |  |
| Channel           |            |         |           | 37800                 | 38000                    | 38200                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 2575                  | 2595                     | 2615                   |                     |          |  |  |
| 10                | QPSK       | 1       | 0         | 22.34                 | 22.41                    | 22.24                  | 24                  | 0        |  |  |
| 10                | QPSK       | 1       | 25        | 22.24                 | 22.39                    | 22.32                  |                     |          |  |  |
| 10                | QPSK       | 1       | 49        | 22.19                 | 22.26                    | 22.42                  |                     |          |  |  |
| 10                | QPSK       | 25      | 0         | 22.37                 | 22.32                    | 22.29                  | 24                  | 0        |  |  |
| 10                | QPSK       | 25      | 12        | 22.25                 | 22.43                    | 22.26                  |                     |          |  |  |
| 10                | QPSK       | 25      | 25        | 22.37                 | 22.34                    | 22.40                  |                     |          |  |  |
| 10                | QPSK       | 50      | 0         | 22.13                 | 22.29                    | 22.31                  | 24                  | 0        |  |  |
| 10                | 16QAM      | 1       | 0         | 22.28                 | 22.37                    | 22.32                  |                     |          |  |  |
| 10                | 16QAM      | 1       | 25        | 22.20                 | 22.44                    | 22.29                  |                     |          |  |  |
| 10                | 16QAM      | 1       | 49        | 22.27                 | 22.34                    | 22.32                  | 24                  | 0        |  |  |
| 10                | 16QAM      | 25      | 0         | 21.51                 | 21.55                    | 21.50                  |                     |          |  |  |
| 10                | 16QAM      | 25      | 12        | 21.44                 | 21.36                    | 21.34                  |                     |          |  |  |
| 10                | 16QAM      | 25      | 25        | 21.35                 | 21.51                    | 21.34                  | 23                  | 1        |  |  |
| 10                | 16QAM      | 50      | 0         | 21.34                 | 21.55                    | 21.54                  |                     |          |  |  |
| 10                | 64QAM      | 1       | 0         | 21.42                 | 21.61                    | 21.58                  |                     |          |  |  |
| 10                | 64QAM      | 1       | 25        | 21.51                 | 21.49                    | 21.47                  | 23                  | 1        |  |  |
| 10                | 64QAM      | 1       | 49        | 21.26                 | 21.46                    | 21.47                  |                     |          |  |  |
| 10                | 64QAM      | 25      | 0         | 21.03                 | 21.09                    | 21.08                  |                     |          |  |  |
| 10                | 64QAM      | 25      | 12        | 20.95                 | 21.03                    | 21.01                  | 22                  | 2        |  |  |
| 10                | 64QAM      | 25      | 25        | 20.92                 | 21.04                    | 20.96                  |                     |          |  |  |
| 10                | 64QAM      | 50      | 0         | 20.94                 | 21.04                    | 21.00                  |                     |          |  |  |
| Channel           |            |         |           | 37775                 | 38000                    | 38225                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)   |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |          |  |  |
| 5                 | QPSK       | 1       | 0         | 22.32                 | 22.46                    | 22.49                  | 24                  | 0        |  |  |
| 5                 | QPSK       | 1       | 12        | 22.36                 | 22.48                    | 22.44                  |                     |          |  |  |
| 5                 | QPSK       | 1       | 24        | 22.28                 | 22.43                    | 22.43                  |                     |          |  |  |
| 5                 | QPSK       | 12      | 0         | 22.28                 | 22.43                    | 22.39                  | 24                  | 0        |  |  |
| 5                 | QPSK       | 12      | 7         | 22.28                 | 22.50                    | 22.32                  |                     |          |  |  |
| 5                 | QPSK       | 12      | 13        | 22.38                 | 22.44                    | 22.38                  |                     |          |  |  |
| 5                 | QPSK       | 25      | 0         | 22.27                 | 22.46                    | 22.51                  | 24                  | 0        |  |  |
| 5                 | 16QAM      | 1       | 0         | 22.24                 | 22.44                    | 22.35                  |                     |          |  |  |
| 5                 | 16QAM      | 1       | 12        | 22.30                 | 22.42                    | 22.34                  |                     |          |  |  |
| 5                 | 16QAM      | 1       | 24        | 22.27                 | 22.39                    | 22.45                  | 24                  | 0        |  |  |
| 5                 | 16QAM      | 12      | 0         | 21.35                 | 21.54                    | 21.58                  |                     |          |  |  |
| 5                 | 16QAM      | 12      | 7         | 21.37                 | 21.41                    | 21.37                  |                     |          |  |  |
| 5                 | 16QAM      | 12      | 13        | 21.45                 | 21.38                    | 21.44                  | 23                  | 1        |  |  |
| 5                 | 16QAM      | 25      | 0         | 21.38                 | 21.54                    | 21.55                  |                     |          |  |  |
| 5                 | 64QAM      | 1       | 0         | 21.54                 | 21.56                    | 21.57                  |                     |          |  |  |
| 5                 | 64QAM      | 1       | 12        | 21.37                 | 21.47                    | 21.47                  | 23                  | 1        |  |  |
| 5                 | 64QAM      | 1       | 24        | 21.18                 | 21.39                    | 21.50                  |                     |          |  |  |
| 5                 | 64QAM      | 12      | 0         | 21.02                 | 21.10                    | 21.08                  |                     |          |  |  |
| 5                 | 64QAM      | 12      | 7         | 20.88                 | 21.04                    | 21.02                  | 22                  | 2        |  |  |
| 5                 | 64QAM      | 12      | 13        | 20.92                 | 21.07                    | 21.02                  |                     |          |  |  |
| 5                 | 64QAM      | 25      | 0         | 20.97                 | 21.04                    | 20.94                  |                     |          |  |  |

| Band 41 Ant1 DSI5 |            |         |           |                       |                              |                          |                               |                        |                     |          |  |  |
|-------------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|--|--|
| 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         | 22.47                 | 22.34                        | 22.56                    | 22.43                         | 22.38                  | 24                  | 0        |  |  |
| 20                | QPSK       | 1       | 49        | 22.32                 | 22.34                        | 22.48                    | 22.45                         | 22.38                  |                     |          |  |  |
| 20                | QPSK       | 1       | 99        | 22.45                 | 22.30                        | 22.48                    | 22.45                         | 22.40                  |                     |          |  |  |
| 20                | QPSK       | 50      | 0         | 22.32                 | 22.31                        | 22.53                    | 22.42                         | 22.35                  | 24                  | 0        |  |  |
| 20                | QPSK       | 50      | 24        | 22.34                 | 22.29                        | 22.42                    | 22.41                         | 22.39                  |                     |          |  |  |
| 20                | QPSK       | 50      | 50        | 22.44                 | 22.31                        | 22.52                    | 22.45                         | 22.37                  |                     |          |  |  |
| 20                | QPSK       | 100     | 0         | 22.36                 | 22.33                        | 22.49                    | 22.43                         | 22.42                  | 24                  | 0        |  |  |
| 20                | 16QAM      | 1       | 0         | 22.41                 | 22.29                        | 22.50                    | 22.40                         | 22.43                  |                     |          |  |  |
| 20                | 16QAM      | 1       | 49        | 22.42                 | 22.32                        | 22.42                    | 22.41                         | 22.40                  |                     |          |  |  |
| 20                | 16QAM      | 1       | 99        | 22.42                 | 22.31                        | 22.53                    | 22.38                         | 22.40                  | 23.5                | 0.5      |  |  |
| 20                | 16QAM      | 50      | 0         | 22.13                 | 22.14                        | 22.17                    | 22.10                         | 22.11                  |                     |          |  |  |
| 20                | 16QAM      | 50      | 24        | 22.10                 | 22.06                        | 22.05                    | 21.95                         | 22.05                  |                     |          |  |  |
| 20                | 16QAM      | 50      | 50        | 22.03                 | 22.08                        | 22.08                    | 22.04                         | 21.97                  | 23.5                | 0.5      |  |  |
| 20                | 16QAM      | 100     | 0         | 22.17                 | 22.23                        | 22.29                    | 22.24                         | 22.18                  |                     |          |  |  |
| 20                | 64QAM      | 1       | 0         | 22.30                 | 22.24                        | 22.38                    | 22.29                         | 22.30                  |                     |          |  |  |
| 20                | 64QAM      | 1       | 49        | 22.23                 | 22.17                        | 22.25                    | 22.21                         | 22.24                  | 23.5                | 0.5      |  |  |
| 20                | 64QAM      | 1       | 99        | 22.18                 | 22.16                        | 22.26                    | 22.17                         | 22.24                  |                     |          |  |  |
| 20                | 64QAM      | 50      | 0         | 21.10                 | 21.19                        | 21.28                    | 21.18                         | 21.22                  |                     |          |  |  |
| 20                | 64QAM      | 50      | 24        | 21.02                 | 21.09                        | 21.13                    | 21.15                         | 21.09                  | 22.5                | 1.5      |  |  |
| 20                | 64QAM      | 50      | 50        | 21.07                 | 21.05                        | 21.19                    | 21.03                         | 21.14                  |                     |          |  |  |
| 20                | 64QAM      | 100     | 0         | 21.21                 | 21.21                        | 21.30                    | 21.18                         | 21.18                  |                     |          |  |  |
| 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         | 22.29                 | 22.27                        | 22.47                    | 22.34                         | 22.30                  | 24                  | 0        |  |  |
| 15                | QPSK       | 1       | 37        | 22.29                 | 22.30                        | 22.43                    | 22.37                         | 22.29                  |                     |          |  |  |
| 15                | QPSK       | 1       | 74        | 22.41                 | 22.26                        | 22.42                    | 22.36                         | 22.34                  |                     |          |  |  |
| 15                | QPSK       | 36      | 0         | 22.24                 | 22.22                        | 22.49                    | 22.38                         | 22.26                  | 24                  | 0        |  |  |
| 15                | QPSK       | 36      | 20        | 22.25                 | 22.24                        | 22.34                    | 22.36                         | 22.32                  |                     |          |  |  |
| 15                | QPSK       | 36      | 39        | 22.37                 | 22.25                        | 22.48                    | 22.39                         | 22.29                  |                     |          |  |  |
| 15                | QPSK       | 75      | 0         | 22.31                 | 22.27                        | 22.40                    | 22.35                         | 22.38                  | 24                  | 0        |  |  |
| 15                | 16QAM      | 1       | 0         | 22.33                 | 22.24                        | 22.46                    | 22.37                         | 22.38                  |                     |          |  |  |
| 15                | 16QAM      | 1       | 37        | 22.34                 | 22.23                        | 22.37                    | 22.37                         | 22.33                  |                     |          |  |  |
| 15                | 16QAM      | 1       | 74        | 22.38                 | 22.24                        | 22.47                    | 22.30                         | 22.35                  | 23.5                | 0.5      |  |  |
| 15                | 16QAM      | 36      | 0         | 22.10                 | 22.06                        | 22.09                    | 22.05                         | 22.08                  |                     |          |  |  |
| 15                | 16QAM      | 36      | 20        | 22.06                 | 22.00                        | 21.96                    | 21.91                         | 21.97                  |                     |          |  |  |
| 15                | 16QAM      | 36      |           |                       |                              |                          |                               |                        |                     |          |  |  |

| GSM850 An4 DSS1      |                           |       |       |                           |                           |       |       |                           |       |
|----------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|-------|
| GSM850<br>TX Channel | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |       |
|                      | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |       |
| Frequency (MHz)      | 124.2                     | 134.4 | 141.8 | 124.2                     | 134.4                     | 141.8 | 124.2 | 134.4                     | 141.8 |
| GSM 1 Tx slot        | 29.00                     | 29.18 | 29.28 | 30.00                     | 20.00                     | 20.18 | 20.28 | 21.00                     |       |
| GPRS 1 Tx slot       | 29.02                     | 29.22 | 29.32 | 30.00                     | 20.02                     | 20.22 | 20.32 | 21.00                     |       |
| GPRS 2 Tx slots      | 25.85                     | 25.94 | 25.94 | 27.50                     | 19.85                     | 19.94 | 19.94 | 21.50                     |       |
| GPRS 3 Tx slots      | 23.57                     | 23.74 | 23.74 | 25.50                     | 19.31                     | 19.49 | 19.49 | 21.24                     |       |
| GPRS 4 Tx slots      | 22.34                     | 22.57 | 22.51 | 24.50                     | 18.34                     | 18.57 | 18.51 | 21.50                     |       |
| EDGE 1 Tx slot       | 23.14                     | 23.14 | 23.03 | 24.50                     | 14.14                     | 14.14 | 14.03 | 15.50                     |       |
| EDGE 2 Tx slots      | 20.45                     | 20.67 | 20.51 | 22.00                     | 14.45                     | 14.67 | 14.51 | 16.00                     |       |
| EDGE 3 Tx slots      | 18.01                     | 18.04 | 18.07 | 20.90                     | 13.75                     | 13.78 | 13.81 | 15.74                     |       |
| EDGE 4 Tx slots      | 16.92                     | 17.10 | 16.74 | 19.50                     | 13.92                     | 14.10 | 13.74 | 15.50                     |       |

  

| GSM1900 An4 DSS1      |                           |       |        |                           |                           |        |        |                           |        |
|-----------------------|---------------------------|-------|--------|---------------------------|---------------------------|--------|--------|---------------------------|--------|
| GSM1900<br>TX Channel | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame Average Power (dBm) |        |        | Tune-up<br>Limit<br>(dBm) |        |
|                       | 512                       | 661   | 810    |                           | 512                       | 661    | 810    |                           |        |
| Frequency (MHz)       | 1850.2                    | 1860  | 1909.8 | 1850.2                    | 1860                      | 1909.8 | 1850.2 | 1860                      | 1909.8 |
| GSM 1 Tx slot         | 27.84                     | 27.82 | 28.20  | 29.50                     | 18.84                     | 18.82  | 19.20  | 20.50                     |        |
| GPRS 1 Tx slot        | 27.87                     | 27.96 | 28.33  | 29.50                     | 18.87                     | 18.96  | 19.33  | 20.50                     |        |
| GPRS 2 Tx slots       | 25.69                     | 26.05 | 26.02  | 27.00                     | 19.69                     | 20.05  | 20.02  | 21.00                     |        |
| GPRS 3 Tx slots       | 23.47                     | 23.58 | 23.87  | 24.50                     | 19.21                     | 19.32  | 19.61  | 20.24                     |        |
| GPRS 4 Tx slots       | 22.24                     | 22.25 | 22.74  | 23.00                     | 19.24                     | 19.25  | 19.74  | 20.00                     |        |
| EDGE 1 Tx slot        | 24.51                     | 24.43 | 24.99  | 25.50                     | 15.51                     | 15.43  | 15.99  | 16.50                     |        |
| EDGE 2 Tx slots       | 21.28                     | 21.13 | 21.44  | 22.00                     | 15.28                     | 15.13  | 15.44  | 16.00                     |        |
| EDGE 3 Tx slots       | 19.32                     | 19.24 | 19.52  | 20.00                     | 15.06                     | 14.98  | 15.26  | 15.74                     |        |
| EDGE 4 Tx slots       | 18.65                     | 18.58 | 18.89  | 19.00                     | 15.65                     | 15.58  | 15.89  | 16.00                     |        |

  

| Band                                  | WCDMA II An4 DSS1 |       |        | WCDMA IV An4 DSS1 |        |        | WCDMA V An4 DSS1 |        |        | Tune-up<br>Limit<br>(dBm) |       |       |
|---------------------------------------|-------------------|-------|--------|-------------------|--------|--------|------------------|--------|--------|---------------------------|-------|-------|
|                                       | 9282              | 9400  | 9638   | 1312              | 1413   | 1513   | 4132             | 4182   | 4233   |                           |       |       |
| TX Channel                            | 9282              | 9400  | 9638   | 1312              | 1413   | 1513   | 4132             | 4182   | 4233   |                           |       |       |
| Rx Channel                            | 9862              | 9900  | 9938   | 1537              | 1638   | 1738   | 4357             | 4407   | 4458   |                           |       |       |
| Frequency (MHz)                       | 1850.4            | 1860  | 1907.8 | 1722.4            | 1722.9 | 1762.8 | 2861.8           | 2861.4 | 2841.6 |                           |       |       |
| 3GPP Rel 99<br>AMR 12.2Kbps           | 17.75             | 17.82 | 17.72  | 19.00             | 13.06  | 14.15  | 14.05            | 22.11  | 22.32  | 22.29                     | 23.50 |       |
| 3GPP Rel 99<br>RMC 12.2Kbps           | 17.80             | 17.85 | 17.74  | 19.00             | 14.03  | 14.23  | 13.93            | 22.22  | 22.33  | 22.30                     | 23.50 |       |
| 3GPP Rel 6<br>HSDPA Subtest-1         | 16.63             | 16.85 | 16.77  | 18.00             | 12.94  | 13.08  | 13.04            | 14.50  | 21.40  | 21.29                     | 21.40 | 22.50 |
| 3GPP Rel 6<br>HSDPA Subtest-2         | 16.70             | 16.79 | 16.67  | 18.00             | 12.97  | 13.05  | 12.96            | 14.50  | 21.24  | 21.49                     | 21.24 | 22.50 |
| 3GPP Rel 6<br>HSDPA Subtest-3         | 16.25             | 16.41 | 16.31  | 17.50             | 12.44  | 12.51  | 12.52            | 14.00  | 20.82  | 20.87                     | 20.83 | 22.00 |
| 3GPP Rel 6<br>HSDPA Subtest-4         | 16.20             | 16.37 | 16.21  | 17.50             | 12.48  | 12.49  | 12.50            | 14.00  | 20.83  | 20.95                     | 20.86 | 22.00 |
| 3GPP Rel 6<br>DC-HSDPA Subtest-1      | 16.66             | 16.79 | 16.71  | 18.00             | 12.94  | 12.99  | 12.94            | 14.50  | 21.36  | 21.43                     | 21.34 | 22.50 |
| 3GPP Rel 6<br>DC-HSDPA Subtest-2      | 16.58             | 16.65 | 16.69  | 18.00             | 12.84  | 12.95  | 12.96            | 14.50  | 21.25  | 21.45                     | 21.22 | 22.50 |
| 3GPP Rel 6<br>DC-HSDPA Subtest-3      | 16.08             | 16.36 | 16.27  | 17.50             | 12.45  | 12.56  | 12.44            | 14.00  | 20.71  | 20.92                     | 20.80 | 22.00 |
| 3GPP Rel 6<br>DC-HSDPA Subtest-4      | 16.03             | 16.16 | 16.11  | 17.50             | 12.35  | 12.47  | 12.39            | 14.00  | 20.65  | 20.77                     | 20.76 | 22.00 |
| 3GPP Rel 6<br>HSUPA Subtest-1         | 16.60             | 16.88 | 16.64  | 18.00             | 12.83  | 12.91  | 12.84            | 14.50  | 21.16  | 21.33                     | 21.34 | 22.50 |
| 3GPP Rel 6<br>HSUPA Subtest-2         | 14.69             | 14.85 | 14.80  | 16.00             | 10.89  | 11.11  | 11.02            | 12.50  | 19.34  | 19.53                     | 19.33 | 20.50 |
| 3GPP Rel 6<br>HSUPA Subtest-3         | 15.84             | 15.98 | 15.84  | 17.00             | 12.04  | 12.13  | 11.98            | 13.50  | 20.44  | 20.57                     | 20.49 | 21.50 |
| 3GPP Rel 6<br>HSUPA Subtest-4         | 14.65             | 14.76 | 14.65  | 16.00             | 10.89  | 11.09  | 10.80            | 12.50  | 19.22  | 19.28                     | 19.34 | 20.50 |
| 3GPP Rel 6<br>HSUPA Subtest-5         | 16.63             | 16.71 | 16.68  | 18.00             | 12.82  | 13.02  | 12.84            | 14.50  | 21.38  | 21.36                     | 21.27 | 22.50 |
| 3GPP Rel 7<br>HSPA+ (MCSAM) Subtest-1 | 14.25             | 14.33 | 14.25  | 15.50             | 10.66  | 10.65  | 10.52            | 12.00  | 18.93  | 18.95                     | 18.86 | 20.00 |



| Band 2 Ant4 DSI5 |            |         |           |                     |                        |                      |               |          |  |  |
|------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------|----------|--|--|
| BW (MHz)         | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Tune-up (dBm) | MPR (dB) |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 20               | QPSK       | 1       | 0         | 18.05               | 18.16                  | 18.15                |               |          |  |  |
| 20               | QPSK       | 1       | 49        | 18.03               | 18.14                  | 17.89                | 19.5          | 0        |  |  |
| 20               | QPSK       | 1       | 99        | 17.92               | 18.15                  | 18.14                |               |          |  |  |
| 20               | QPSK       | 50      | 0         | 18.04               | 18.12                  | 18.08                |               |          |  |  |
| 20               | QPSK       | 50      | 24        | 18.09               | 18.11                  | 17.90                | 19.5          | 0        |  |  |
| 20               | QPSK       | 50      | 74        | 18.05               | 18.11                  | 18.10                |               |          |  |  |
| 20               | QPSK       | 100     | 0         | 18.08               | 18.09                  | 18.08                |               |          |  |  |
| 20               | 16QAM      | 1       | 0         | 18.02               | 18.08                  | 17.98                |               |          |  |  |
| 20               | 16QAM      | 1       | 49        | 17.92               | 18.12                  | 18.04                | 19.5          | 0        |  |  |
| 20               | 16QAM      | 1       | 99        | 18.07               | 18.14                  | 18.12                |               |          |  |  |
| 20               | 16QAM      | 50      | 0         | 18.14               | 18.06                  | 17.94                |               |          |  |  |
| 20               | 16QAM      | 50      | 24        | 17.93               | 18.11                  | 18.06                | 19.5          | 0        |  |  |
| 20               | 16QAM      | 50      | 74        | 18.05               | 18.14                  | 18.12                |               |          |  |  |
| 20               | 16QAM      | 100     | 0         | 18.13               | 18.10                  | 17.93                |               |          |  |  |
| 20               | 64QAM      | 1       | 0         | 17.92               | 18.15                  | 18.12                |               |          |  |  |
| 20               | 64QAM      | 1       | 49        | 18.01               | 18.13                  | 18.09                | 19.5          | 0        |  |  |
| 20               | 64QAM      | 1       | 99        | 18.08               | 18.09                  | 17.92                |               |          |  |  |
| 20               | 64QAM      | 50      | 0         | 17.91               | 18.12                  | 18.04                |               |          |  |  |
| 20               | 64QAM      | 50      | 24        | 18.09               | 18.04                  | 18.08                | 19.5          | 0        |  |  |
| 20               | 64QAM      | 50      | 74        | 18.08               | 18.05                  | 17.96                |               |          |  |  |
| 20               | 64QAM      | 100     | 0         | 17.94               | 18.15                  | 18.04                |               |          |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 15               | QPSK       | 1       | 0         | 17.85               | 18.03                  | 18.07                |               |          |  |  |
| 15               | QPSK       | 1       | 37        | 17.97               | 18.02                  | 17.80                | 19.5          | 0        |  |  |
| 15               | QPSK       | 1       | 74        | 17.76               | 18.08                  | 18.02                |               |          |  |  |
| 15               | QPSK       | 36      | 0         | 17.98               | 18.06                  | 17.98                |               |          |  |  |
| 15               | QPSK       | 36      | 20        | 18.04               | 17.97                  | 17.84                | 19.5          | 0        |  |  |
| 15               | QPSK       | 36      | 39        | 17.81               | 17.96                  | 17.96                |               |          |  |  |
| 15               | QPSK       | 75      | 0         | 17.84               | 17.96                  | 17.93                |               |          |  |  |
| 15               | 16QAM      | 1       | 0         | 17.97               | 18.02                  | 17.96                |               |          |  |  |
| 15               | 16QAM      | 1       | 37        | 17.82               | 18.02                  | 17.82                | 19.5          | 0        |  |  |
| 15               | 16QAM      | 1       | 74        | 18.01               | 18.00                  | 18.10                |               |          |  |  |
| 15               | 16QAM      | 36      | 0         | 18.00               | 17.95                  | 17.85                |               |          |  |  |
| 15               | 16QAM      | 36      | 20        | 17.85               | 18.00                  | 18.00                | 19.5          | 0        |  |  |
| 15               | 16QAM      | 36      | 39        | 17.83               | 18.02                  | 18.01                |               |          |  |  |
| 15               | 16QAM      | 75      | 0         | 18.06               | 17.97                  | 17.95                |               |          |  |  |
| 15               | 16QAM      | 75      | 0         | 17.82               | 18.11                  | 18.06                | 19.5          | 0        |  |  |
| 15               | 64QAM      | 1       | 37        | 17.96               | 18.03                  | 17.96                |               |          |  |  |
| 15               | 64QAM      | 1       | 74        | 17.96               | 18.03                  | 17.83                |               |          |  |  |
| 15               | 64QAM      | 36      | 0         | 17.82               | 18.08                  | 17.88                |               |          |  |  |
| 15               | 64QAM      | 36      | 20        | 17.97               | 17.88                  | 18.04                | 19.5          | 0        |  |  |
| 15               | 64QAM      | 36      | 39        | 17.87               | 18.09                  | 17.98                |               |          |  |  |
| 15               | 64QAM      | 75      | 0         | 17.85               | 18.03                  | 17.95                |               |          |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 10               | QPSK       | 1       | 0         | 17.93               | 18.09                  | 18.08                |               |          |  |  |
| 10               | QPSK       | 1       | 25        | 17.92               | 18.01                  | 17.74                | 19.5          | 0        |  |  |
| 10               | QPSK       | 1       | 49        | 17.85               | 18.07                  | 18.00                |               |          |  |  |
| 10               | QPSK       | 25      | 0         | 17.88               | 18.06                  | 18.00                |               |          |  |  |
| 10               | QPSK       | 25      | 12        | 18.04               | 17.95                  | 17.82                | 19.5          | 0        |  |  |
| 10               | QPSK       | 25      | 25        | 17.86               | 18.07                  | 17.92                |               |          |  |  |
| 10               | QPSK       | 50      | 0         | 17.99               | 18.00                  | 18.01                |               |          |  |  |
| 10               | 16QAM      | 1       | 0         | 17.88               | 18.02                  | 17.88                |               |          |  |  |
| 10               | 16QAM      | 1       | 25        | 17.88               | 18.04                  | 18.00                | 19.5          | 0        |  |  |
| 10               | 16QAM      | 1       | 49        | 18.02               | 18.04                  | 18.10                |               |          |  |  |
| 10               | 16QAM      | 25      | 0         | 18.07               | 17.95                  | 17.80                |               |          |  |  |
| 10               | 16QAM      | 25      | 12        | 17.77               | 17.96                  | 17.95                | 19.5          | 0        |  |  |
| 10               | 16QAM      | 25      | 25        | 17.95               | 18.06                  | 18.03                |               |          |  |  |
| 10               | 16QAM      | 50      | 0         | 18.06               | 18.01                  | 17.79                |               |          |  |  |
| 10               | 64QAM      | 1       | 0         | 17.83               | 18.04                  | 17.97                |               |          |  |  |
| 10               | 64QAM      | 1       | 25        | 17.86               | 17.97                  | 17.97                | 19.5          | 0        |  |  |
| 10               | 64QAM      | 1       | 49        | 18.01               | 17.99                  | 17.86                |               |          |  |  |
| 10               | 64QAM      | 25      | 0         | 17.87               | 18.03                  | 17.86                |               |          |  |  |
| 10               | 64QAM      | 25      | 12        | 17.88               | 18.12                  | 18.02                | 19.5          | 0        |  |  |
| 10               | 64QAM      | 25      | 25        | 17.99               | 17.95                  | 17.91                |               |          |  |  |
| 10               | 64QAM      | 50      | 0         | 17.81               | 18.00                  | 17.93                |               |          |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 5                | QPSK       | 1       | 0         | 17.83               | 18.00                  | 18.05                |               |          |  |  |
| 5                | QPSK       | 1       | 12        | 17.84               | 18.01                  | 17.76                | 19.5          | 0        |  |  |
| 5                | QPSK       | 1       | 24        | 17.78               | 18.05                  | 18.06                |               |          |  |  |
| 5                | QPSK       | 12      | 0         | 17.99               | 17.99                  | 18.02                |               |          |  |  |
| 5                | QPSK       | 12      | 7         | 18.04               | 18.06                  | 17.81                | 19.5          | 0        |  |  |
| 5                | QPSK       | 12      | 13        | 17.92               | 17.95                  | 17.83                |               |          |  |  |
| 5                | QPSK       | 25      | 0         | 18.01               | 18.03                  | 18.04                |               |          |  |  |
| 5                | 16QAM      | 1       | 0         | 17.92               | 18.01                  | 17.98                |               |          |  |  |
| 5                | 16QAM      | 1       | 12        | 17.87               | 18.07                  | 17.90                | 19.5          | 0        |  |  |
| 5                | 16QAM      | 1       | 24        | 17.95               | 18.07                  | 18.07                |               |          |  |  |
| 5                | 16QAM      | 12      | 0         | 18.05               | 18.01                  | 17.87                |               |          |  |  |
| 5                | 16QAM      | 12      | 7         | 17.87               | 18.05                  | 17.97                | 19.5          | 0        |  |  |
| 5                | 16QAM      | 12      | 13        | 17.94               | 18.04                  | 18.03                |               |          |  |  |
| 5                | 16QAM      | 25      | 0         | 18.08               | 17.99                  | 17.82                |               |          |  |  |
| 5                | 64QAM      | 1       | 0         | 17.78               | 18.10                  | 18.01                |               |          |  |  |
| 5                | 64QAM      | 1       | 12        | 17.90               | 18.04                  | 18.05                | 19.5          | 0        |  |  |
| 5                | 64QAM      | 1       | 24        | 17.93               | 18.04                  | 17.80                |               |          |  |  |
| 5                | 64QAM      | 12      | 0         | 17.88               | 17.98                  | 17.96                |               |          |  |  |
| 5                | 64QAM      | 12      | 7         | 18.02               | 18.11                  | 17.93                | 19.5          | 0        |  |  |
| 5                | 64QAM      | 12      | 13        | 18.02               | 17.94                  | 17.90                |               |          |  |  |
| 5                | 64QAM      | 25      | 0         | 17.85               | 18.07                  | 17.93                |               |          |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 3                | QPSK       | 1       | 0         | 17.92               | 18.08                  | 18.03                |               |          |  |  |
| 3                | QPSK       | 1       | 8         | 17.85               | 18.07                  | 17.76                | 19.5          | 0        |  |  |
| 3                | QPSK       | 1       | 14        | 17.77               | 18.06                  | 18.01                |               |          |  |  |
| 3                | QPSK       | 8       | 0         | 17.83               | 17.97                  | 17.99                |               |          |  |  |
| 3                | QPSK       | 8       | 4         | 17.99               | 18.02                  | 17.78                | 19.5          | 0        |  |  |
| 3                | QPSK       | 8       | 7         | 17.91               | 17.96                  | 17.85                |               |          |  |  |
| 3                | QPSK       | 15      | 0         | 17.99               | 18.03                  | 17.97                |               |          |  |  |
| 3                | 16QAM      | 1       | 0         | 17.83               | 18.00                  | 17.83                |               |          |  |  |
| 3                | 16QAM      | 1       | 8         | 17.88               | 18.04                  | 17.96                | 19.5          | 0        |  |  |
| 3                | 16QAM      | 1       | 14        | 17.84               | 18.02                  | 18.03                |               |          |  |  |
| 3                | 16QAM      | 8       | 0         | 18.10               | 18.00                  | 17.80                |               |          |  |  |
| 3                | 16QAM      | 8       | 4         | 17.84               | 18.02                  | 17.95                | 19.5          | 0        |  |  |
| 3                | 16QAM      | 8       | 7         | 17.89               | 18.07                  | 18.04                |               |          |  |  |
| 3                | 16QAM      | 15      | 0         | 18.04               | 18.01                  | 17.88                |               |          |  |  |
| 3                | 64QAM      | 1       | 0         | 17.83               | 18.05                  | 18.01                |               |          |  |  |
| 3                | 64QAM      | 1       | 8         | 17.85               | 17.97                  | 17.98                | 19.5          | 0        |  |  |
| 3                | 64QAM      | 1       | 14        | 18.00               | 18.01                  | 17.80                |               |          |  |  |
| 3                | 64QAM      | 8       | 0         | 17.77               | 18.05                  | 17.91                |               |          |  |  |
| 3                | 64QAM      | 8       | 4         | 18.00               | 18.08                  | 17.98                | 19.5          | 0        |  |  |
| 3                | 64QAM      | 8       | 7         | 17.93               | 17.89                  | 17.82                |               |          |  |  |
| 3                | 64QAM      | 15      | 0         | 17.83               | 18.09                  | 17.91                |               |          |  |  |
| Channel          |            |         |           |                     |                        |                      |               |          |  |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |               |          |  |  |
| 1.4              | QPSK       | 1       | 0         | 17.83               | 18.06                  | 18.10                |               |          |  |  |
| 1.4              | QPSK       | 1       | 3         | 17.87               | 18.04                  | 17.78                | 19.5          | 0        |  |  |
| 1.4              | QPSK       | 1       | 5         | 17.85               | 18.08                  | 18.07                |               |          |  |  |
| 1.4              | QPSK       | 3       | 0         | 17.86               | 18.04                  | 17.93                |               |          |  |  |
| 1.4              | QPSK       | 3       | 1         | 17.84               | 18.00                  | 17.82                |               |          |  |  |
| 1.4              | QPSK       | 3       | 3         | 17.81               | 18.05                  | 17.99                | 19.5          | 0        |  |  |
| 1.4              | QPSK       | 6       | 0         | 17.85               | 17.98                  | 17.93                |               |          |  |  |
| 1.4              | 16QAM      | 1       | 0         | 17.80               | 18.01                  | 17.96                |               |          |  |  |
| 1.4              | 16QAM      | 1       | 3         | 17.83               | 18.02                  | 17.85                | 19.5          | 0        |  |  |
| 1.4              | 16QAM      | 1       | 5         | 17.96               | 18.06                  | 18.10                |               |          |  |  |
| 1.4              | 16QAM      | 3       | 0         | 18.02               | 17.86                  | 17.88                |               |          |  |  |
| 1.4              | 16QAM      | 3       | 1         | 17.79               | 17.97                  | 17.98                | 19.5          | 0        |  |  |
| 1.4              | 16QAM      | 3       | 3         | 18.00               | 18.04                  | 17.97                |               |          |  |  |
| 1.4              | 16QAM      | 6       | 0         | 17.82               | 17.99                  | 17.79                |               |          |  |  |
| 1.4              | 64QAM      | 1       | 0         | 17.78               | 18.05                  | 18.07                |               |          |  |  |
| 1.4              | 64QAM      | 1       | 3         | 17.95               | 18.05                  | 17.98                | 19.5          | 0        |  |  |
| 1.4              | 64QAM      | 1       | 5         | 18.00               | 17.94                  | 17.88                |               |          |  |  |
| 1.4              | 64QAM      | 3       | 0         | 17.76               | 18.04                  | 17.90                |               |          |  |  |
| 1.4              | 64QAM      | 3       | 1         | 17.87               | 18.15                  | 18.03                | 19.5          | 0        |  |  |
| 1.4              | 64QAM      | 3       | 3         | 17.99               | 17.99                  | 17.81                |               |          |  |  |
| 1.4              | 64QAM      | 6       | 0         | 17.87               | 18.05                  | 17.95                | 19.5          |          |  |  |



| Band 13 Ant4 Default |             |         |           |                       |                          |                        |                     |          |  |  |
|----------------------|-------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]             | Modulat ion | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel              |             |         |           | 23259                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |             |         |           | 782                   |                          |                        |                     |          |  |  |
| 10                   | QPSK        | 1       | 0         | 24.24                 | 24.10                    | 24.14                  |                     |          |  |  |
| 10                   | QPSK        | 1       | 25        | 24.05                 | 24.05                    | 24.05                  | 25.5                | 0        |  |  |
| 10                   | QPSK        | 1       | 49        | 24.23                 | 24.23                    | 24.23                  |                     |          |  |  |
| 10                   | QPSK        | 25      | 0         | 23.17                 | 23.17                    | 23.17                  | 24.5                | 1        |  |  |
| 10                   | QPSK        | 25      | 12        | 22.96                 | 22.96                    | 22.96                  |                     |          |  |  |
| 10                   | QPSK        | 25      | 25        | 22.99                 | 22.99                    | 22.99                  |                     |          |  |  |
| 10                   | QPSK        | 50      | 0         | 23.06                 | 23.06                    | 23.06                  |                     |          |  |  |
| 10                   | 16QAM       | 1       | 0         | 23.18                 | 23.18                    | 23.18                  | 24.5                | 1        |  |  |
| 10                   | 16QAM       | 1       | 25        | 23.07                 | 23.07                    | 23.07                  |                     |          |  |  |
| 10                   | 16QAM       | 1       | 49        | 23.04                 | 23.04                    | 23.04                  |                     |          |  |  |
| 10                   | 16QAM       | 25      | 0         | 22.06                 | 22.06                    | 22.06                  |                     |          |  |  |
| 10                   | 16QAM       | 25      | 12        | 22.07                 | 22.07                    | 22.07                  | 23.5                | 2        |  |  |
| 10                   | 16QAM       | 25      | 25        | 22.18                 | 22.18                    | 22.18                  |                     |          |  |  |
| 10                   | 16QAM       | 50      | 0         | 22.11                 | 22.11                    | 22.11                  |                     |          |  |  |
| 10                   | 16QAM       | 1       | 0         | 22.34                 | 22.34                    | 22.34                  |                     |          |  |  |
| 10                   | 16QAM       | 1       | 25        | 22.45                 | 22.45                    | 22.45                  | 23.5                | 2        |  |  |
| 10                   | 16QAM       | 1       | 49        | 22.43                 | 22.43                    | 22.43                  |                     |          |  |  |
| 10                   | 16QAM       | 25      | 0         | 21.32                 | 21.32                    | 21.32                  |                     |          |  |  |
| 10                   | 16QAM       | 25      | 12        | 21.23                 | 21.23                    | 21.23                  | 22.5                | 3        |  |  |
| 10                   | 16QAM       | 25      | 25        | 21.43                 | 21.43                    | 21.43                  |                     |          |  |  |
| 10                   | 16QAM       | 50      | 0         | 21.28                 | 21.28                    | 21.28                  |                     |          |  |  |
| Channel              |             |         |           | 23205                 |                          |                        |                     |          |  |  |
| Frequency (MHz)      |             |         |           | 782                   |                          |                        |                     |          |  |  |
| 5                    | QPSK        | 1       | 0         | 24.05                 | 24.10                    | 24.14                  |                     |          |  |  |
| 5                    | QPSK        | 1       | 12        | 23.89                 | 24.01                    | 23.96                  | 25.5                | 0        |  |  |
| 5                    | QPSK        | 1       | 24        | 24.06                 | 24.11                    | 24.11                  |                     |          |  |  |
| 5                    | QPSK        | 12      | 0         | 23.14                 | 22.98                    | 22.98                  |                     |          |  |  |
| 5                    | QPSK        | 12      | 7         | 22.87                 | 22.86                    | 22.85                  | 24.5                | 1        |  |  |
| 5                    | QPSK        | 12      | 13        | 22.85                 | 22.92                    | 22.88                  |                     |          |  |  |
| 5                    | QPSK        | 25      | 0         | 22.99                 | 23.00                    | 22.99                  |                     |          |  |  |
| 5                    | 16QAM       | 1       | 0         | 23.04                 | 23.04                    | 22.99                  | 24.5                | 1        |  |  |
| 5                    | 16QAM       | 1       | 12        | 22.93                 | 23.03                    | 22.85                  |                     |          |  |  |
| 5                    | 16QAM       | 1       | 24        | 22.83                 | 22.84                    | 22.99                  |                     |          |  |  |
| 5                    | 16QAM       | 12      | 0         | 21.99                 | 21.91                    | 21.85                  |                     |          |  |  |
| 5                    | 16QAM       | 12      | 7         | 21.97                 | 21.97                    | 21.89                  | 23.5                | 2        |  |  |
| 5                    | 16QAM       | 12      | 13        | 22.02                 | 21.99                    | 22.07                  |                     |          |  |  |
| 5                    | 16QAM       | 25      | 0         | 21.96                 | 22.02                    | 21.92                  |                     |          |  |  |
| 5                    | 16QAM       | 1       | 0         | 22.16                 | 22.24                    | 22.15                  | 23.5                | 2        |  |  |
| 5                    | 16QAM       | 1       | 12        | 22.30                 | 22.40                    | 22.23                  |                     |          |  |  |
| 5                    | 16QAM       | 1       | 24        | 22.38                 | 22.29                    | 22.23                  |                     |          |  |  |
| 5                    | 16QAM       | 12      | 0         | 21.16                 | 21.11                    | 21.12                  |                     |          |  |  |
| 5                    | 16QAM       | 12      | 7         | 21.10                 | 21.17                    | 21.03                  | 22.5                | 3        |  |  |
| 5                    | 16QAM       | 12      | 13        | 21.25                 | 21.21                    | 21.23                  |                     |          |  |  |
| 5                    | 16QAM       | 25      | 0         | 21.08                 | 21.19                    | 21.08                  |                     |          |  |  |

| Band 26 Ant4 DS15 |             |         |           |                       |                          |                        |                     |          |  |  |
|-------------------|-------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]          | Modulat ion | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel           |             |         |           | 26765                 |                          |                        |                     |          |  |  |
| Frequency (MHz)   |             |         |           | 821.5                 |                          |                        |                     |          |  |  |
| 15                | QPSK        | 1       | 0         | 21.81                 | 22.11                    | 21.93                  |                     |          |  |  |
| 15                | QPSK        | 1       | 37        | 21.83                 | 22.05                    | 21.88                  | 23.5                | 0        |  |  |
| 15                | QPSK        | 1       | 74        | 21.84                 | 22.02                    | 21.88                  |                     |          |  |  |
| 15                | QPSK        | 36      | 0         | 21.87                 | 22.09                    | 21.91                  |                     |          |  |  |
| 15                | QPSK        | 36      | 20        | 21.86                 | 22.08                    | 21.87                  | 23.5                | 0        |  |  |
| 15                | QPSK        | 36      | 39        | 21.88                 | 22.03                    | 21.93                  |                     |          |  |  |
| 15                | QPSK        | 75      | 0         | 21.82                 | 22.09                    | 21.91                  |                     |          |  |  |
| 15                | 16QAM       | 1       | 0         | 21.88                 | 22.05                    | 21.93                  | 23.5                | 0        |  |  |
| 15                | 16QAM       | 1       | 37        | 21.81                 | 22.05                    | 21.91                  |                     |          |  |  |
| 15                | 16QAM       | 1       | 74        | 21.85                 | 22.10                    | 21.89                  |                     |          |  |  |
| 15                | 16QAM       | 36      | 0         | 21.82                 | 22.07                    | 21.88                  | 23.5                | 0        |  |  |
| 15                | 16QAM       | 36      | 20        | 21.81                 | 22.04                    | 21.90                  |                     |          |  |  |
| 15                | 16QAM       | 36      | 39        | 21.85                 | 22.01                    | 21.88                  |                     |          |  |  |
| 15                | 16QAM       | 75      | 0         | 21.87                 | 22.07                    | 21.93                  |                     |          |  |  |
| 15                | 16QAM       | 1       | 0         | 21.77                 | 22.00                    | 21.92                  | 23.5                | 0        |  |  |
| 15                | 16QAM       | 1       | 37        | 21.84                 | 22.05                    | 21.92                  |                     |          |  |  |
| 15                | 16QAM       | 1       | 74        | 21.86                 | 22.06                    | 21.92                  |                     |          |  |  |
| 15                | 16QAM       | 36      | 0         | 21.82                 | 22.07                    | 21.88                  | 22.5                | 1        |  |  |
| 15                | 16QAM       | 36      | 20        | 21.81                 | 22.04                    | 21.92                  |                     |          |  |  |
| 15                | 16QAM       | 36      | 39        | 21.87                 | 21.47                    | 21.32                  |                     |          |  |  |
| 15                | 16QAM       | 36      | 39        | 21.32                 | 21.39                    | 21.36                  |                     |          |  |  |
| 15                | 16QAM       | 75      | 0         | 21.32                 | 21.40                    | 21.33                  |                     |          |  |  |
| Channel           |             |         |           | 26740                 |                          |                        |                     |          |  |  |
| Frequency (MHz)   |             |         |           | 819                   |                          |                        |                     |          |  |  |
| 10                | QPSK        | 1       | 0         | 21.73                 | 21.99                    | 21.80                  |                     |          |  |  |
| 10                | QPSK        | 1       | 25        | 21.76                 | 21.92                    | 21.80                  | 23.5                | 0        |  |  |
| 10                | QPSK        | 1       | 49        | 21.70                 | 21.93                    | 21.75                  |                     |          |  |  |
| 10                | QPSK        | 25      | 0         | 21.77                 | 21.98                    | 21.79                  |                     |          |  |  |
| 10                | QPSK        | 25      | 12        | 21.80                 | 21.98                    | 21.83                  | 23.5                | 0        |  |  |
| 10                | QPSK        | 25      | 25        | 21.79                 | 21.88                    | 21.85                  |                     |          |  |  |
| 10                | QPSK        | 50      | 0         | 21.73                 | 22.01                    | 21.79                  |                     |          |  |  |
| 10                | 16QAM       | 1       | 0         | 21.76                 | 21.95                    | 21.78                  | 23.5                | 0        |  |  |
| 10                | 16QAM       | 1       | 25        | 21.76                 | 21.94                    | 21.85                  |                     |          |  |  |
| 10                | 16QAM       | 1       | 49        | 21.70                 | 21.94                    | 21.76                  |                     |          |  |  |
| 10                | 16QAM       | 25      | 0         | 21.76                 | 22.02                    | 21.78                  |                     |          |  |  |
| 10                | 16QAM       | 25      | 12        | 21.73                 | 21.96                    | 21.82                  | 23.5                | 0        |  |  |
| 10                | 16QAM       | 25      | 25        | 21.70                 | 21.94                    | 21.81                  |                     |          |  |  |
| 10                | 16QAM       | 50      | 0         | 21.78                 | 21.96                    | 21.83                  |                     |          |  |  |
| 10                | 16QAM       | 1       | 0         | 21.75                 | 21.91                    | 21.88                  | 23.5                | 0        |  |  |
| 10                | 16QAM       | 1       | 25        | 21.73                 | 21.92                    | 21.78                  |                     |          |  |  |
| 10                | 16QAM       | 1       | 49        | 21.73                 | 21.98                    | 21.80                  |                     |          |  |  |
| 10                | 16QAM       | 25      | 0         | 21.27                 | 21.27                    | 20.99                  |                     |          |  |  |
| 10                | 16QAM       | 25      | 12        | 21.30                 | 21.37                    | 21.27                  | 22.5                | 1        |  |  |
| 10                | 16QAM       | 25      | 25        | 21.23                 | 21.31                    | 21.20                  |                     |          |  |  |
| 10                | 16QAM       | 50      | 0         | 21.27                 | 21.27                    | 21.17                  |                     |          |  |  |
| Channel           |             |         |           | 26715                 |                          |                        |                     |          |  |  |
| Frequency (MHz)   |             |         |           | 816.5                 |                          |                        |                     |          |  |  |
| 5                 | QPSK        | 1       | 0         | 21.76                 | 21.99                    | 21.85                  |                     |          |  |  |
| 5                 | QPSK        | 1       | 12        | 21.73                 | 21.98                    | 21.74                  | 23.5                | 0        |  |  |
| 5                 | QPSK        | 1       | 24        | 21.71                 | 21.95                    | 21.78                  |                     |          |  |  |
| 5                 | QPSK        | 12      | 0         | 21.75                 | 21.95                    | 21.78                  |                     |          |  |  |
| 5                 | QPSK        | 12      | 7         | 21.72                 | 22.04                    | 21.78                  | 23.5                | 0        |  |  |
| 5                 | QPSK        | 12      | 13        | 21.83                 | 21.92                    | 21.87                  |                     |          |  |  |
| 5                 | QPSK        | 25      | 0         | 21.75                 | 21.93                    | 21.77                  |                     |          |  |  |
| 5                 | 16QAM       | 1       | 0         | 21.75                 | 21.91                    | 21.79                  | 23.5                | 0        |  |  |
| 5                 | 16QAM       | 1       | 12        | 21.71                 | 21.95                    | 21.85                  |                     |          |  |  |
| 5                 | 16QAM       | 1       | 24        | 21.77                 | 22.01                    | 21.78                  |                     |          |  |  |
| 5                 | 16QAM       | 12      | 0         | 21.72                 | 21.93                    | 21.76                  | 23.5                | 0        |  |  |
| 5                 | 16QAM       | 12      | 7         | 21.71                 | 21.91                    | 21.80                  |                     |          |  |  |
| 5                 | 16QAM       | 12      | 13        | 21.72                 | 21.88                    | 21.78                  |                     |          |  |  |
| 5                 | 16QAM       | 25      | 0         | 21.82                 | 21.99                    | 21.80                  |                     |          |  |  |
| 5                 | 16QAM       | 1       | 0         | 21.76                 | 21.88                    | 21.81                  | 23.5                | 0        |  |  |
| 5                 | 16QAM       | 1       | 12        | 21.72                 | 21.93                    | 21.83                  |                     |          |  |  |
| 5                 | 16QAM       | 1       | 24        | 21.80                 | 22.01                    | 21.83                  |                     |          |  |  |
| 5                 | 16QAM       | 12      | 0         | 21.18                 | 21.20                    | 21.06                  |                     |          |  |  |
| 5                 | 16QAM       | 12      | 7         | 21.27                 | 21.37                    | 21.22                  | 22.5                | 1        |  |  |
| 5                 | 16QAM       | 12      | 13        | 21.25                 | 21.35                    | 21.26                  |                     |          |  |  |
| 5                 | 16QAM       | 25      | 0         | 21.27                 | 21.31                    | 21.24                  |                     |          |  |  |
| Channel           |             |         |           | 26705                 |                          |                        |                     |          |  |  |
| Frequency (MHz)   |             |         |           | 815.5                 |                          |                        |                     |          |  |  |
| 3                 | QPSK        | 1       | 0         | 21.77                 | 22.00                    | 21.84                  |                     |          |  |  |
| 3                 | QPSK        | 1       | 8         | 21.77                 | 21.94                    | 21.82                  | 23.5                | 0        |  |  |
| 3                 | QPSK        | 1       | 14        | 21.78                 | 21.91                    | 21.78                  |                     |          |  |  |
| 3                 | QPSK        | 8       | 0         | 21.73                 | 21.96                    | 21.80                  |                     |          |  |  |
| 3                 | QPSK        | 8       | 4         | 21.80                 | 22.04                    | 21.75                  | 23.5                | 0        |  |  |
| 3                 | QPSK        | 8       | 7         | 21.73                 | 21.88                    | 21.86                  |                     |          |  |  |
| 3                 | QPSK        | 15      | 0         | 21.76                 | 21.95                    | 21.86                  |                     |          |  |  |
| 3                 | 16QAM       | 1       | 0         | 21.76                 | 21.97                    | 21.89                  | 23.5                | 0        |  |  |
| 3                 | 16QAM       | 1       | 8         | 21.72                 | 21.99                    | 21.86                  |                     |          |  |  |
| 3                 | 16QAM       | 1       | 14        | 21.80                 | 22.05                    | 21.75                  |                     |          |  |  |
| 3                 | 16QAM       | 8       | 0         | 21.77                 | 21.99                    | 21.75                  | 23.5                | 0        |  |  |
| 3                 | 16QAM       | 8       | 4         | 21.76                 | 21.94                    | 21.80                  |                     |          |  |  |
| 3                 | 16QAM       | 8       | 7         | 21.71                 | 21.89                    | 21.81                  |                     |          |  |  |
| 3                 | 16QAM       | 15      | 0         | 21.72                 | 22.00                    | 21.88                  | 23                  |          |  |  |

| Band 38 Ant4 DSIS |             |         |           |                       |                          |                        |                     |          |  |  |
|-------------------|-------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]          | Modulat Ion | 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         | 20.50                 | 20.71                    | 20.54                  |                     |          |  |  |
| 20                | QPSK        | 1       | 49        | 20.47                 | 20.58                    | 20.62                  | 22                  | 0        |  |  |
| 20                | QPSK        | 1       | 99        | 20.49                 | 20.59                    | 20.59                  |                     |          |  |  |
| 20                | QPSK        | 50      | 0         | 20.42                 | 20.67                    | 20.58                  |                     |          |  |  |
| 20                | QPSK        | 50      | 24        | 20.41                 | 20.64                    | 20.57                  |                     |          |  |  |
| 20                | QPSK        | 50      | 50        | 20.42                 | 20.59                    | 20.59                  | 22                  | 0        |  |  |
| 20                | QPSK        | 100     | 0         | 20.40                 | 20.60                    | 20.56                  |                     |          |  |  |
| 20                | 16QAM       | 1       | 0         | 20.41                 | 20.61                    | 20.63                  |                     |          |  |  |
| 20                | 16QAM       | 1       | 49        | 20.48                 | 20.60                    | 20.56                  | 22                  | 0        |  |  |
| 20                | 16QAM       | 1       | 99        | 20.43                 | 20.70                    | 20.59                  |                     |          |  |  |
| 20                | 16QAM       | 50      | 0         | 20.52                 | 20.67                    | 20.55                  |                     |          |  |  |
| 20                | 16QAM       | 50      | 24        | 20.41                 | 20.61                    | 20.61                  | 22                  | 0        |  |  |
| 20                | 16QAM       | 50      | 50        | 20.40                 | 20.62                    | 20.64                  |                     |          |  |  |
| 20                | 16QAM       | 100     | 0         | 20.43                 | 20.65                    | 20.66                  |                     |          |  |  |
| 20                | 84QAM       | 1       | 0         | 20.48                 | 20.62                    | 20.62                  |                     |          |  |  |
| 20                | 84QAM       | 1       | 49        | 20.50                 | 20.63                    | 20.54                  | 22                  | 0        |  |  |
| 20                | 84QAM       | 1       | 99        | 20.46                 | 20.63                    | 20.56                  |                     |          |  |  |
| 20                | 84QAM       | 50      | 0         | 20.47                 | 20.67                    | 20.62                  |                     |          |  |  |
| 20                | 84QAM       | 50      | 24        | 20.42                 | 20.67                    | 20.58                  | 22                  | 0        |  |  |
| 20                | 84QAM       | 50      | 50        | 20.40                 | 20.62                    | 20.60                  |                     |          |  |  |
| 20                | 84QAM       | 100     | 0         | 20.50                 | 20.59                    | 20.63                  |                     |          |  |  |
| Channel           |             |         |           | 37825                 | 38000                    | 38175                  |                     |          |  |  |
| Frequency (MHz)   |             |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |  |  |
| 15                | QPSK        | 1       | 0         | 20.39                 | 20.57                    | 20.42                  |                     |          |  |  |
| 15                | QPSK        | 1       | 37        | 20.37                 | 20.43                    | 20.55                  | 22                  | 0        |  |  |
| 15                | QPSK        | 1       | 74        | 20.33                 | 20.51                    | 20.47                  |                     |          |  |  |
| 15                | QPSK        | 36      | 0         | 20.37                 | 20.56                    | 20.46                  |                     |          |  |  |
| 15                | QPSK        | 36      | 20        | 20.39                 | 20.54                    | 20.49                  | 22                  | 0        |  |  |
| 15                | QPSK        | 36      | 39        | 20.35                 | 20.50                    | 20.50                  |                     |          |  |  |
| 15                | QPSK        | 75      | 0         | 20.35                 | 20.47                    | 20.40                  |                     |          |  |  |
| 15                | 16QAM       | 1       | 0         | 20.27                 | 20.53                    | 20.48                  |                     |          |  |  |
| 15                | 16QAM       | 1       | 37        | 20.38                 | 20.56                    | 20.41                  | 22                  | 0        |  |  |
| 15                | 16QAM       | 1       | 74        | 20.37                 | 20.57                    | 20.49                  |                     |          |  |  |
| 15                | 16QAM       | 36      | 0         | 20.48                 | 20.61                    | 20.42                  |                     |          |  |  |
| 15                | 16QAM       | 36      | 20        | 20.27                 | 20.51                    | 20.48                  | 22                  | 0        |  |  |
| 15                | 16QAM       | 36      | 39        | 20.25                 | 20.52                    | 20.56                  |                     |          |  |  |
| 15                | 16QAM       | 75      | 0         | 20.36                 | 20.58                    | 20.55                  |                     |          |  |  |
| 15                | 84QAM       | 1       | 0         | 20.34                 | 20.57                    | 20.54                  |                     |          |  |  |
| 15                | 84QAM       | 1       | 37        | 20.44                 | 20.52                    | 20.50                  | 22                  | 0        |  |  |
| 15                | 84QAM       | 1       | 74        | 20.40                 | 20.57                    | 20.48                  |                     |          |  |  |
| 15                | 84QAM       | 36      | 0         | 20.32                 | 20.62                    | 20.48                  |                     |          |  |  |
| 15                | 84QAM       | 36      | 20        | 20.34                 | 20.55                    | 20.43                  | 22                  | 0        |  |  |
| 15                | 84QAM       | 36      | 39        | 20.33                 | 20.47                    | 20.48                  |                     |          |  |  |
| 15                | 84QAM       | 75      | 0         | 20.43                 | 20.54                    | 20.51                  |                     |          |  |  |
| Channel           |             |         |           | 37800                 | 38000                    | 38200                  |                     |          |  |  |
| Frequency (MHz)   |             |         |           | 2575                  | 2595                     | 2615                   |                     |          |  |  |
| 10                | QPSK        | 1       | 0         | 20.38                 | 20.63                    | 20.43                  |                     |          |  |  |
| 10                | QPSK        | 1       | 25        | 20.42                 | 20.43                    | 20.52                  | 22                  | 0        |  |  |
| 10                | QPSK        | 1       | 49        | 20.38                 | 20.46                    | 20.51                  |                     |          |  |  |
| 10                | QPSK        | 25      | 0         | 20.31                 | 20.54                    | 20.45                  |                     |          |  |  |
| 10                | QPSK        | 25      | 12        | 20.27                 | 20.50                    | 20.49                  | 22                  | 0        |  |  |
| 10                | QPSK        | 25      | 25        | 20.31                 | 20.43                    | 20.52                  |                     |          |  |  |
| 10                | QPSK        | 50      | 0         | 20.29                 | 20.56                    | 20.42                  |                     |          |  |  |
| 10                | 16QAM       | 1       | 0         | 20.28                 | 20.48                    | 20.50                  |                     |          |  |  |
| 10                | 16QAM       | 1       | 25        | 20.42                 | 20.47                    | 20.42                  | 22                  | 0        |  |  |
| 10                | 16QAM       | 1       | 49        | 20.39                 | 20.65                    | 20.49                  |                     |          |  |  |
| 10                | 16QAM       | 25      | 0         | 20.46                 | 20.63                    | 20.39                  |                     |          |  |  |
| 10                | 16QAM       | 25      | 12        | 20.28                 | 20.50                    | 20.49                  | 22                  | 0        |  |  |
| 10                | 16QAM       | 25      | 25        | 20.29                 | 20.57                    | 20.57                  |                     |          |  |  |
| 10                | 84QAM       | 1       | 0         | 20.30                 | 20.50                    | 20.61                  |                     |          |  |  |
| 10                | 84QAM       | 1       | 25        | 20.43                 | 20.56                    | 20.48                  | 22                  | 0        |  |  |
| 10                | 84QAM       | 1       | 49        | 20.32                 | 20.51                    | 20.46                  |                     |          |  |  |
| 10                | 84QAM       | 25      | 0         | 20.33                 | 20.53                    | 20.56                  |                     |          |  |  |
| 10                | 84QAM       | 25      | 12        | 20.32                 | 20.55                    | 20.44                  | 22                  | 0        |  |  |
| 10                | 84QAM       | 25      | 25        | 20.31                 | 20.51                    | 20.52                  |                     |          |  |  |
| 10                | 84QAM       | 50      | 0         | 20.36                 | 20.52                    | 20.50                  |                     |          |  |  |
| Channel           |             |         |           | 37775                 | 38000                    | 38225                  |                     |          |  |  |
| Frequency (MHz)   |             |         |           | 2572.5                | 2595                     | 2617.5                 |                     |          |  |  |
| 5                 | QPSK        | 1       | 0         | 20.37                 | 20.60                    | 20.48                  |                     |          |  |  |
| 5                 | QPSK        | 1       | 12        | 20.35                 | 20.53                    | 20.50                  | 22                  | 0        |  |  |
| 5                 | QPSK        | 1       | 24        | 20.37                 | 20.54                    | 20.46                  |                     |          |  |  |
| 5                 | QPSK        | 12      | 0         | 20.28                 | 20.54                    | 20.44                  |                     |          |  |  |
| 5                 | QPSK        | 12      | 7         | 20.33                 | 20.48                    | 20.51                  | 22                  | 0        |  |  |
| 5                 | QPSK        | 12      | 13        | 20.31                 | 20.53                    | 20.54                  |                     |          |  |  |
| 5                 | QPSK        | 25      | 0         | 20.35                 | 20.44                    | 20.46                  |                     |          |  |  |
| 5                 | 16QAM       | 1       | 0         | 20.30                 | 20.54                    | 20.55                  |                     |          |  |  |
| 5                 | 16QAM       | 1       | 12        | 20.43                 | 20.50                    | 20.44                  | 22                  | 0        |  |  |
| 5                 | 16QAM       | 1       | 24        | 20.38                 | 20.58                    | 20.49                  |                     |          |  |  |
| 5                 | 16QAM       | 12      | 0         | 20.39                 | 20.52                    | 20.45                  |                     |          |  |  |
| 5                 | 16QAM       | 12      | 7         | 20.29                 | 20.50                    | 20.56                  | 22                  | 0        |  |  |
| 5                 | 16QAM       | 12      | 13        | 20.32                 | 20.55                    | 20.54                  |                     |          |  |  |
| 5                 | 16QAM       | 25      | 0         | 20.29                 | 20.50                    | 20.58                  |                     |          |  |  |
| 5                 | 84QAM       | 1       | 0         | 20.37                 | 20.57                    | 20.55                  |                     |          |  |  |
| 5                 | 84QAM       | 1       | 12        | 20.43                 | 20.57                    | 20.46                  | 22                  | 0        |  |  |
| 5                 | 84QAM       | 1       | 24        | 20.32                 | 20.50                    | 20.44                  |                     |          |  |  |
| 5                 | 84QAM       | 12      | 0         | 20.38                 | 20.53                    | 20.54                  |                     |          |  |  |
| 5                 | 84QAM       | 12      | 7         | 20.28                 | 20.52                    | 20.49                  | 22                  | 0        |  |  |
| 5                 | 84QAM       | 12      | 13        | 20.35                 | 20.52                    | 20.54                  |                     |          |  |  |
| 5                 | 84QAM       | 25      | 0         | 20.42                 | 20.47                    | 20.48                  |                     |          |  |  |

| Band 41 Ant4 DSIS |             |         |           |                       |                          |                        |                               |                        |                     |          |
|-------------------|-------------|---------|-----------|-----------------------|--------------------------|------------------------|-------------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulat Ion | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High 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         | 20.68                 | 20.60                    | 20.86                  | 20.71                         | 20.71                  |                     |          |
| 20                | QPSK        | 1       | 49        | 20.54                 | 20.70                    | 20.79                  | 20.60                         | 20.57                  | 22                  | 0        |
| 20                | QPSK        | 1       | 99        | 20.64                 | 20.61                    | 20.80                  | 20.64                         | 20.64                  |                     |          |
| 20                | QPSK        | 50      | 0         | 20.65                 | 20.68                    | 20.82                  | 20.64                         | 20.64                  |                     |          |
| 20                | QPSK        | 50      | 24        | 20.61                 | 20.61                    | 20.78                  | 20.53                         | 20.57                  | 22                  | 0        |
| 20                | QPSK        | 50      | 50        | 20.59                 | 20.65                    | 20.74                  | 20.55                         | 20.58                  |                     |          |
| 20                | QPSK        | 100     | 0         | 20.52                 | 20.68                    | 20.73                  | 20.57                         | 20.56                  |                     |          |
| 20                | 16QAM       | 1       | 0         | 20.46                 | 20.64                    | 20.72                  | 20.50                         | 20.56                  |                     |          |
| 20                | 16QAM       | 1       | 49        | 20.50                 | 20.66                    | 20.73                  | 20.55                         | 20.55                  | 22                  | 0        |
| 20                | 16QAM       | 1       | 99        | 20.61                 | 20.60                    | 20.78                  | 20.56                         | 20.53                  |                     |          |
| 20                | 16QAM       | 50      | 0         | 20.55                 | 20.63                    | 20.72                  | 20.47                         | 20.52                  |                     |          |
| 20                | 16QAM       | 50      | 24        | 20.57                 | 20.62                    | 20.77                  | 20.60                         | 20.60                  | 22                  | 0        |
| 20                | 16QAM       | 50      | 50        | 20.53                 | 20.66                    | 20.75                  | 20.59                         | 20.52                  |                     |          |
| 20                | 16QAM       | 100     | 0         | 20.67                 | 20.64                    | 20.81                  | 20.62                         | 20.60                  |                     |          |
| 20                | 84QAM       | 1       | 0         | 20.67                 | 20.61                    | 20.82                  | 20.63                         | 20.64                  |                     |          |
| 20                | 84QAM       | 1       | 49        | 20.59                 | 20.71                    | 20.78                  | 20.63                         | 20.59                  | 22                  | 0        |
| 20                | 84QAM       | 1       | 99        | 20.57                 | 20.66                    | 20.73                  | 20.51                         | 20.55                  |                     |          |
| 20                | 84QAM       | 50      | 0         | 20.58                 | 20.61                    | 20.73                  | 20.56                         | 20.55                  |                     |          |
| 20                | 84QAM       | 50      | 24        | 20.62                 | 20.62                    | 20.81                  | 20.65                         | 20.64                  | 22                  | 0        |
| 20                | 84QAM       | 50      | 50        | 20.67                 | 20.61                    | 20.82                  | 20.62                         | 20.60                  |                     |          |
| 20                | 84QAM       | 100     | 0         | 20.62                 | 20.64                    | 20.79                  | 20.63                         | 20.63                  |                     |          |
| Channel           |             |         |           | 39725                 | 40173                    | 40620                  | 41068                         | 41515                  |                     |          |
| Frequency (MHz)   |             |         |           | 2503.5                | 2548.3                   | 2593                   | 2637.8                        | 2682.5                 |                     |          |
| 15                | QPSK        | 1       | 0         | 20.48                 | 20.68                    | 20.43                  | 20.52                         | 20.50                  |                     |          |
| 15                | QPSK        | 1       | 37        | 20.31                 | 20.56                    | 20.51                  | 20.42                         | 20.32                  | 22                  | 0        |
| 15                | QPSK        | 1       | 74        | 20.38                 | 20.64                    | 20.37                  | 20.45                         | 20.48                  |                     |          |
| 15                | QPSK        | 36      | 0         | 20.48                 | 20.57                    | 20.52                  | 20.41                         | 20.41                  |                     |          |
| 15                | QPSK        | 36      | 20        | 20.39                 | 20.54                    | 20.36                  | 20.41                         | 20.41                  | 22                  | 0        |
| 15                | QPSK        | 36      | 39        | 20.34                 | 20.49                    | 20.39                  | 20.35                         | 20.39                  |                     |          |
| 15                | QPSK        | 75      | 0         | 20.30                 | 20.49                    | 20.42                  | 20.36                         | 20.35                  |                     |          |
| 15                | 16QAM       | 1       | 0         | 20.28                 | 20.52                    | 20.45                  | 20.30                         | 20.42                  |                     |          |
| 15                | 16QAM       | 1       | 37        | 20.30                 | 20.57                    | 20.43                  | 20.41                         | 20.34                  | 22                  | 0        |
| 15                | 16QAM       | 1       | 74        | 20.47                 | 20.56                    | 20.37                  | 20.35                         | 20.32                  |                     |          |
| 15                | 16QAM       | 36      | 0         | 20.34                 | 20.46                    | 20                     |                               |                        |                     |          |

| Aire 6            |               | Full power      |                     |               | Head Simultaneous   |               |              |       |
|-------------------|---------------|-----------------|---------------------|---------------|---------------------|---------------|--------------|-------|
| Mode              | Channel       | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |
| 2.4GHz WLAN       | 802.11b 1Mbps | 1               | 2412                | 17.70         | 19.50               | 14.73         | 16.50        | 98.95 |
|                   |               | 6               | 2437                | 17.50         | 19.90               | 14.05         | 16.50        |       |
|                   |               | 11              | 2462                | 16.90         | 19.90               | 13.89         | 15.90        |       |
| 802.11g 6Mbps     | 6             | 1               | 2412                | 15.10         | 17.00               |               | 16.50        | 97.92 |
|                   |               | 11              | 2462                | 14.20         | 16.00               |               | 16.00        |       |
|                   |               | 1               | 2412                | 14.60         | 16.90               |               | 16.90        |       |
| 802.11n-HT20 MCS0 | 6             | 1               | 2412                | 14.60         | 16.90               |               | 16.90        | 98.13 |
|                   |               | 11              | 2462                | 13.40         | 15.00               |               | 15.00        |       |

| Aire 6              |                     | Full power      |                     |               | Hotspot Standalone  |               | Hotspot Simultaneous |               | Head Standalone     |               | Head Simultaneous   |               |              |
|---------------------|---------------------|-----------------|---------------------|---------------|---------------------|---------------|----------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
| Mode                | Channel             | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm)  | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.2GHz WLAN         | 802.11a 6Mbps       | 36              | 5190                | 13.52         | 15.50               | 13.10         | 15.00                | 13.50         | 12.00               | 9.00          | 9.00                | 9.00          | 98.09        |
|                     |                     | 40              | 5200                | 13.53         | 15.50               | 13.12         | 15.00                | 13.50         | 12.00               | 9.00          | 9.00                | 9.00          |              |
|                     |                     | 44              | 5220                | 13.56         | 15.50               | 13.17         | 15.00                | 13.50         | 12.00               | 9.00          | 9.00                | 9.00          |              |
|                     |                     | 48              | 5240                | 13.55         | 15.50               | 13.07         | 15.00                | 13.50         | 12.00               | 9.00          | 9.00                | 9.00          |              |
|                     | 802.11n-HT20 MCS0   | 36              | 5190                | 13.52         | 15.50               | 13.10         | 15.00                | 13.50         | 12.00               | 9.00          | 9.00                | 9.00          | 97.95        |
|                     |                     | 40              | 5200                | 13.54         | 15.50               |               |                      | 13.50         | 12.00               | 9.00          | 9.00                | 9.00          |              |
|                     |                     | 44              | 5220                | 13.63         | 15.50               | 15.00         | 15.00                | 13.50         | 12.00               | 9.00          | 9.00                | 9.00          |              |
|                     |                     | 48              | 5240                | 13.57         | 15.50               | 15.00         | 15.00                | 13.50         | 12.00               | 9.00          | 9.00                | 9.00          |              |
|                     | 802.11n-HT40 MCS0   | 38              | 5190                | 12.57         | 14.50               | 14.50         | 14.50                | 13.50         | 12.00               | 9.00          | 9.00                | 9.00          | 94.90        |
|                     |                     | 46              | 5230                | 12.81         | 14.50               | 14.50         | 14.50                | 13.50         | 12.00               | 9.00          | 9.00                | 9.00          |              |
|                     | 802.11ac-VHT20 MCS0 | 36              | 5190                | 13.51         | 15.50               | 15.00         | 15.00                | 13.50         | 12.00               | 9.00          | 9.00                | 9.00          | 98.47        |
|                     |                     | 40              | 5200                | 13.52         | 15.50               | 15.00         | 15.00                | 13.50         | 12.00               | 9.00          | 9.00                | 9.00          |              |
| 44                  |                     | 5220            | 13.57               | 15.50         | 15.00               | 15.00         | 13.50                | 12.00         | 9.00                | 9.00          | 9.00                |               |              |
| 48                  |                     | 5240            | 13.53               | 15.50         | 15.00               | 15.00         | 13.50                | 12.00         | 9.00                | 9.00          | 9.00                |               |              |
| 802.11ac-VHT40 MCS0 | 38                  | 5190            | 12.55               | 14.50         | 14.50               | 14.50         | 13.50                | 12.00         | 9.00                | 9.00          | 9.00                | 93.88         |              |
|                     | 46                  | 5230            | 12.58               | 14.50         | 14.50               | 14.50         | 13.50                | 12.00         | 9.00                | 9.00          | 9.00                |               |              |
| 802.11ac-VHT80 MCS0 | 42                  | 5210            | 11.71               | 13.50         | 13.50               | 11.71         | 13.50                | 10.23         | 12.00               | 7.25          | 9.00                | 92.94         |              |

| Aire 6              |               | Full power      |                     |               | Head Standalone     |               | Head Simultaneous |       |       |
|---------------------|---------------|-----------------|---------------------|---------------|---------------------|---------------|-------------------|-------|-------|
| Mode                | Channel       | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle %      |       |       |
| 5.3GHz WLAN         | 802.11a 6Mbps | 52              | 5280                | 13.56         | 15.50               | 12.00         | 9.00              | 98.09 |       |
|                     |               | 56              | 5280                | 13.53         | 15.50               | 12.00         | 9.00              |       |       |
|                     |               | 60              | 5300                | 13.54         | 15.50               | 12.00         | 9.00              |       |       |
|                     |               | 64              | 5320                | 13.69         | 15.50               | 12.00         | 9.00              |       |       |
| 802.11n-HT20 MCS0   | 52            | 5280            | 13.52               | 15.50         | 12.00               | 9.00          | 97.95             |       |       |
|                     | 56            | 5280            | 13.53               | 15.50         | 12.00               | 9.00          |                   |       |       |
|                     | 60            | 5300            | 13.51               | 15.50         | 12.00               | 9.00          |                   |       |       |
|                     | 64            | 5320            | 13.58               | 15.50         | 12.00               | 9.00          |                   |       |       |
| 802.11n-HT40 MCS0   | 54            | 5270            | 12.98               | 14.50         | 12.00               | 9.00          | 94.90             |       |       |
|                     | 62            | 5310            | 12.97               | 14.50         | 12.00               | 9.00          |                   |       |       |
| 802.11ac-VHT20 MCS0 | 52            | 5280            | 13.51               | 15.50         | 12.00               | 9.00          | 98.47             |       |       |
|                     | 56            | 5280            | 13.52               | 15.50         | 12.00               | 9.00          |                   |       |       |
|                     | 60            | 5300            | 13.50               | 15.50         | 12.00               | 9.00          |                   |       |       |
|                     | 64            | 5320            | 13.55               | 15.50         | 12.00               | 9.00          |                   |       |       |
| 802.11ac-VHT40 MCS0 | 54            | 5270            | 12.92               | 14.50         | 12.00               | 9.00          | 93.88             |       |       |
|                     | 62            | 5310            | 12.92               | 14.50         | 12.00               | 9.00          |                   |       |       |
| 802.11ac-VHT80 MCS0 | 58            | 5290            | 11.80               | 13.50         | 10.25               | 12.00         | 7.31              | 9.00  | 92.94 |

| Aire 6              |                   | Full power      |                     |               | Head Standalone     |               | Head Simultaneous |       |       |
|---------------------|-------------------|-----------------|---------------------|---------------|---------------------|---------------|-------------------|-------|-------|
| Mode                | Channel           | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle %      |       |       |
| 5.3GHz WLAN         | 802.11a 6Mbps     | 100             | 5900                | 13.68         | 15.50               | 13.00         | 10.00             | 98.09 |       |
|                     |                   | 116             | 5980                | 13.51         | 15.50               | 13.00         | 10.00             |       |       |
|                     |                   | 124             | 5620                | 13.50         | 15.50               | 13.00         | 10.00             |       |       |
|                     |                   | 132             | 5660                | 13.53         | 15.50               | 13.00         | 10.00             |       |       |
|                     | 802.11n-HT20 MCS0 | 100             | 5900                | 13.52         | 15.50               | 13.00         | 10.00             | 97.95 |       |
|                     |                   | 116             | 5980                | 13.54         | 15.50               | 13.00         | 10.00             |       |       |
|                     |                   | 124             | 5620                | 13.52         | 15.50               | 13.00         | 10.00             |       |       |
|                     |                   | 132             | 5660                | 13.51         | 15.50               | 13.00         | 10.00             |       |       |
|                     | 802.11n-HT40 MCS0 | 102             | 5910                | 12.69         | 14.50               | 13.00         | 10.00             | 94.90 |       |
|                     |                   | 110             | 5950                | 12.62         | 14.50               | 13.00         | 10.00             |       |       |
|                     |                   | 126             | 5630                | 12.57         | 14.50               | 13.00         | 10.00             |       |       |
|                     |                   | 134             | 5670                | 12.74         | 14.50               | 13.00         | 10.00             |       |       |
| 802.11ac-VHT20 MCS0 | 100               | 5900            | 13.51               | 15.50         | 13.00               | 10.00         | 98.47             |       |       |
|                     | 116               | 5980            | 13.52               | 15.50         | 13.00               | 10.00         |                   |       |       |
|                     | 124               | 5620            | 13.51               | 15.50         | 13.00               | 10.00         |                   |       |       |
|                     | 132               | 5660            | 13.50               | 15.50         | 13.00               | 10.00         |                   |       |       |
| 802.11ac-VHT40 MCS0 | 102               | 5910            | 12.60               | 14.50         | 13.00               | 10.00         | 93.88             |       |       |
|                     | 110               | 5950            | 12.60               | 14.50         | 13.00               | 10.00         |                   |       |       |
|                     | 126               | 5630            | 12.54               | 14.50         | 13.00               | 10.00         |                   |       |       |
|                     | 134               | 5670            | 12.70               | 14.50         | 13.00               | 10.00         |                   |       |       |
| 802.11ac-VHT80 MCS0 | 106               | 5930            | 11.61               | 13.50         | 11.21               | 13.00         | 8.25              | 10.00 | 92.94 |
|                     | 122               | 5610            | 11.56               | 13.50         | 11.15               | 13.00         | 8.16              | 10.00 |       |

| Aire 6              |                     | Full power      |                     |               | Head Simultaneous   |               |              |       |
|---------------------|---------------------|-----------------|---------------------|---------------|---------------------|---------------|--------------|-------|
| Mode                | Channel             | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |
| 5.3GHz WLAN         | 802.11a 6Mbps       | 148             | 5745                | 13.52         | 15.50               | 12.50         | 9.00         | 98.09 |
|                     |                     | 157             | 5785                | 13.50         | 15.50               | 12.50         | 9.00         |       |
|                     |                     | 165             | 5825                | 13.69         | 15.50               | 12.50         | 9.00         |       |
|                     |                     | 149             | 5745                | 13.52         | 15.50               | 12.50         | 9.00         |       |
|                     | 802.11n-HT20 MCS0   | 148             | 5745                | 13.52         | 15.50               | 12.50         | 9.00         | 97.95 |
|                     |                     | 157             | 5785                | 13.55         | 15.50               | 12.50         | 9.00         |       |
|                     |                     | 166             | 5825                | 13.62         | 15.50               | 12.50         | 9.00         |       |
|                     |                     | 151             | 5755                | 12.56         | 14.50               | 12.50         | 9.00         |       |
|                     | 802.11n-HT40 MCS0   | 159             | 5795                | 12.73         | 14.50               | 12.50         | 9.00         | 94.90 |
|                     |                     | 149             | 5745                | 13.50         | 15.50               | 12.50         | 9.00         |       |
|                     | 802.11ac-VHT20 MCS0 | 157             | 5785                | 13.54         | 15.50               | 12.50         | 9.00         | 98.47 |
|                     |                     | 166             | 5825                | 13.60         | 15.50               | 12.50         | 9.00         |       |
| 802.11ac-VHT40 MCS0 | 151                 | 5755            | 12.53               | 14.50         | 12.50               | 9.00          | 93.88        |       |
|                     | 159                 | 5795            | 12.69               | 14.50         | 12.50               | 9.00          |              |       |
| 802.11ac-VHT80 MCS0 | 155                 | 5775            | 11.56               | 13.50         | 10.59               | 12.50         | 92.94        |       |

**<Bluetooth>**

| Mode     | Channel | Frequency (MHz) | Avt1  |       |       | Tune-up Limit |
|----------|---------|-----------------|-------|-------|-------|---------------|
|          |         |                 | 1Mbps | 2Mbps | 3Mbps |               |
| BR / EDR | CH 00   | 2400            | 8.90  | 6.10  | 6.10  | 10.50         |
|          | CH 09   | 2441            | 8.90  | 6.10  | 6.10  | 10.50         |
|          | CH 78   | 2480            | 8.60  | 5.60  | 5.60  | 10.50         |

  

| Mode          | Channel | Frequency (MHz) | Avt1                |     |
|---------------|---------|-----------------|---------------------|-----|
|               |         |                 | Average power (dBm) | FSK |
| LE            | CH 00   | 2400            | 4.20                |     |
|               | CH 19   | 2440            | 4.10                |     |
|               | CH 39   | 2480            | 4.00                |     |
| Tune-up Limit |         |                 | 6.00                |     |