

|       |     |                                                 |               |      |         |
|-------|-----|-------------------------------------------------|---------------|------|---------|
| 10784 | AAC | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.29 | ± 9.6 % |
| 10785 | AAC | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10786 | AAC | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10787 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.44 | ± 9.6 % |
| 10788 | AAC | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10789 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10790 | AAC | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10791 | AAC | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 7.83 | ± 9.6 % |
| 10792 | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.92 | ± 9.6 % |
| 10793 | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.95 | ± 9.6 % |
| 10794 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.82 | ± 9.6 % |
| 10795 | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.84 | ± 9.6 % |
| 10796 | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.82 | ± 9.6 % |
| 10797 | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 8.01 | ± 9.6 % |
| 10798 | AAC | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.89 | ± 9.6 % |
| 10799 | AAC | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.93 | ± 9.6 % |
| 10801 | AAC | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.89 | ± 9.6 % |
| 10802 | AAC | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.87 | ± 9.6 % |
| 10803 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.93 | ± 9.6 % |
| 10805 | AAD | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10806 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10809 | AAD | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10810 | AAD | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10812 | AAD | 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10817 | AAD | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10818 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10819 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.33 | ± 9.6 % |
| 10820 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.30 | ± 9.6 % |
| 10821 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10822 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10823 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10824 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10825 | AAD | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10827 | AAD | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.42 | ± 9.6 % |
| 10828 | AAE | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.43 | ± 9.6 % |
| 10829 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10830 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 7.63 | ± 9.6 % |
| 10831 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 7.73 | ± 9.6 % |
| 10832 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 7.74 | ± 9.6 % |
| 10833 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10834 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 7.75 | ± 9.6 % |
| 10835 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10836 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 7.66 | ± 9.6 % |
| 10837 | AAD | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 7.68 | ± 9.6 % |
| 10839 | AAD | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10840 | AAD | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)     | 5G NR FR1 TDD | 7.67 | ± 9.6 % |
| 10841 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)    | 5G NR FR1 TDD | 7.71 | ± 9.6 % |
| 10843 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)   | 5G NR FR1 TDD | 8.49 | ± 9.6 % |
| 10844 | AAD | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)   | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10846 | AAD | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)   | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10854 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)  | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10855 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)  | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10856 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)  | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10857 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)  | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10858 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)  | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10859 | AAD | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)  | 5G NR FR1 TDD | 8.34 | ± 9.6 % |

|       |     |                                                      |               |      |         |
|-------|-----|------------------------------------------------------|---------------|------|---------|
| 10860 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10861 | AAD | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10863 | AAD | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10864 | AAE | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10865 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)      | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10866 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10868 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.89 | ± 9.6 % |
| 10869 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)     | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10870 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)  | 5G NR FR2 TDD | 5.86 | ± 9.6 % |
| 10871 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)    | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10872 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.52 | ± 9.6 % |
| 10873 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)    | 5G NR FR2 TDD | 6.61 | ± 9.6 % |
| 10874 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | ± 9.6 % |
| 10875 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)        | 5G NR FR2 TDD | 7.78 | ± 9.6 % |
| 10876 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)     | 5G NR FR2 TDD | 8.39 | ± 9.6 % |
| 10877 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)       | 5G NR FR2 TDD | 7.95 | ± 9.6 % |
| 10878 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)    | 5G NR FR2 TDD | 8.41 | ± 9.6 % |
| 10879 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)       | 5G NR FR2 TDD | 8.12 | ± 9.6 % |
| 10880 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)    | 5G NR FR2 TDD | 8.38 | ± 9.6 % |
| 10881 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)      | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10882 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)   | 5G NR FR2 TDD | 5.96 | ± 9.6 % |
| 10883 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)     | 5G NR FR2 TDD | 6.57 | ± 9.6 % |
| 10884 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)  | 5G NR FR2 TDD | 6.53 | ± 9.6 % |
| 10885 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)     | 5G NR FR2 TDD | 6.61 | ± 9.6 % |
| 10886 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)  | 5G NR FR2 TDD | 6.65 | ± 9.6 % |
| 10887 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)         | 5G NR FR2 TDD | 7.78 | ± 9.6 % |
| 10888 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)      | 5G NR FR2 TDD | 8.35 | ± 9.6 % |
| 10889 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)        | 5G NR FR2 TDD | 8.02 | ± 9.6 % |
| 10890 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)     | 5G NR FR2 TDD | 8.40 | ± 9.6 % |
| 10891 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)        | 5G NR FR2 TDD | 8.13 | ± 9.6 % |
| 10892 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)     | 5G NR FR2 TDD | 8.41 | ± 9.6 % |
| 10897 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 5.66 | ± 9.6 % |
| 10898 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10899 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10900 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10901 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10902 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10903 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10904 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10905 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10906 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10907 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.78 | ± 9.6 % |
| 10908 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.93 | ± 9.6 % |
| 10909 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.96 | ± 9.6 % |
| 10910 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| 10911 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.93 | ± 9.6 % |
| 10912 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10913 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10914 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.85 | ± 9.6 % |
| 10915 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| 10916 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10917 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10918 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10919 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10920 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10921 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.84 | ± 9.6 % |

|       |     |                                                     |               |       |         |
|-------|-----|-----------------------------------------------------|---------------|-------|---------|
| 10922 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.82  | ± 9.6 % |
| 10923 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84  | ± 9.6 % |
| 10924 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84  | ± 9.6 % |
| 10925 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.95  | ± 9.6 % |
| 10926 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84  | ± 9.6 % |
| 10927 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.94  | ± 9.6 % |
| 10928 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)       | 5G NR FR1 FDD | 5.52  | ± 9.6 % |
| 10929 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.52  | ± 9.6 % |
| 10930 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.52  | ± 9.6 % |
| 10931 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51  | ± 9.6 % |
| 10932 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51  | ± 9.6 % |
| 10933 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51  | ± 9.6 % |
| 10934 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51  | ± 9.6 % |
| 10935 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51  | ± 9.6 % |
| 10936 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)     | 5G NR FR1 FDD | 5.90  | ± 9.6 % |
| 10937 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.77  | ± 9.6 % |
| 10938 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.90  | ± 9.6 % |
| 10939 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.82  | ± 9.6 % |
| 10940 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.89  | ± 9.6 % |
| 10941 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.83  | ± 9.6 % |
| 10942 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.85  | ± 9.6 % |
| 10943 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.95  | ± 9.6 % |
| 10944 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.81  | ± 9.6 % |
| 10945 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.85  | ± 9.6 % |
| 10946 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.83  | ± 9.6 % |
| 10947 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.87  | ± 9.6 % |
| 10948 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.94  | ± 9.6 % |
| 10949 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.87  | ± 9.6 % |
| 10950 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.94  | ± 9.6 % |
| 10951 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.92  | ± 9.6 % |
| 10952 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 FDD | 8.25  | ± 9.6 % |
| 10953 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.15  | ± 9.6 % |
| 10954 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.23  | ± 9.6 % |
| 10955 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.42  | ± 9.6 % |
| 10956 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   | 5G NR FR1 FDD | 8.14  | ± 9.6 % |
| 10957 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.31  | ± 9.6 % |
| 10958 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.61  | ± 9.6 % |
| 10959 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.33  | ± 9.6 % |
| 10960 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 TDD | 9.32  | ± 9.6 % |
| 10961 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.36  | ± 9.6 % |
| 10962 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.40  | ± 9.6 % |
| 10963 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.55  | ± 9.6 % |
| 10964 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   | 5G NR FR1 TDD | 9.29  | ± 9.6 % |
| 10965 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.37  | ± 9.6 % |
| 10966 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.55  | ± 9.6 % |
| 10967 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.42  | ± 9.6 % |
| 10968 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.49  | ± 9.6 % |
| 10972 | AAB | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)         | 5G NR FR1 TDD | 11.59 | ± 9.6 % |
| 10973 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 9.06  | ± 9.6 % |
| 10974 | AAB | 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)  | 5G NR FR1 TDD | 10.28 | ± 9.6 % |

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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***Appendix E. Conducted RF Output Power Table***

The detailed power table are shown as follows.

### Default Power for WWAN

| GSM850 Ant 1 Default |  |                           |       |       |                           |                           |       |       |                           |
|----------------------|--|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
|                      |  | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|                      |  | 128                       | 169   | 251   |                           | 128                       | 169   | 251   |                           |
| TX Channel           |  | 824.2                     | 835.4 | 846.8 |                           | 824.2                     | 835.4 | 846.8 |                           |
| Frequency (MHz)      |  |                           |       |       |                           |                           |       |       |                           |
| GSM 1 Tx slot        |  | 32.05                     | 32.09 | 32.03 | 33.50                     | 23.05                     | 23.09 | 23.03 | 24.50                     |
| GPRS 1 Tx slot       |  | 32.15                     | 32.18 | 32.16 | 33.50                     | 23.15                     | 23.18 | 23.16 | 24.50                     |
| GPRS 2 Tx slots      |  | 30.03                     | 30.04 | 29.99 | 31.00                     | 24.03                     | 24.04 | 23.99 | 25.00                     |
| GPRS 3 Tx slots      |  | 28.33                     | 28.34 | 28.31 | 29.50                     | 24.07                     | 24.08 | 24.05 | 25.24                     |
| GPRS 4 Tx slots      |  | 26.44                     | 26.46 | 26.39 | 27.50                     | 23.44                     | 23.46 | 23.39 | 24.50                     |
| EDGE 1 Tx slot       |  | 26.75                     | 27.03 | 27.08 | 28.00                     | 17.75                     | 18.03 | 18.08 | 19.00                     |
| EDGE 2 Tx slots      |  | 24.21                     | 24.50 | 24.57 | 25.50                     | 18.21                     | 18.50 | 18.57 | 19.50                     |
| EDGE 3 Tx slots      |  | 22.57                     | 22.81 | 22.89 | 24.00                     | 18.31                     | 18.55 | 18.63 | 19.74                     |
| EDGE 4 Tx slots      |  | 21.21                     | 21.43 | 21.56 | 22.50                     | 18.21                     | 18.43 | 18.56 | 19.50                     |

| GSM1900 Ant 1 Default |  |                           |       |        |                           |                           |       |        |                           |
|-----------------------|--|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
|                       |  | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|                       |  | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| TX Channel            |  | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| Frequency (MHz)       |  |                           |       |        |                           |                           |       |        |                           |
| GSM 1 Tx slot         |  | 29.64                     | 29.49 | 29.59  | 30.50                     | 20.64                     | 20.49 | 20.59  | 21.50                     |
| GPRS 1 Tx slot        |  | 29.63                     | 29.50 | 29.61  | 30.50                     | 20.63                     | 20.50 | 20.61  | 21.50                     |
| GPRS 2 Tx slots       |  | 27.14                     | 26.99 | 27.20  | 28.00                     | 21.14                     | 20.99 | 21.20  | 22.00                     |
| GPRS 3 Tx slots       |  | 25.33                     | 25.47 | 25.31  | 26.50                     | 21.07                     | 21.21 | 21.05  | 22.24                     |
| GPRS 4 Tx slots       |  | 24.05                     | 23.91 | 24.13  | 25.00                     | 21.05                     | 20.91 | 21.13  | 22.00                     |
| EDGE 1 Tx slot        |  | 26.01                     | 25.87 | 25.96  | 27.00                     | 17.01                     | 16.87 | 16.96  | 18.00                     |
| EDGE 2 Tx slots       |  | 23.57                     | 23.46 | 23.47  | 24.50                     | 17.57                     | 17.46 | 17.47  | 18.50                     |
| EDGE 3 Tx slots       |  | 21.83                     | 21.80 | 21.81  | 23.00                     | 17.57                     | 17.54 | 17.55  | 18.74                     |
| EDGE 4 Tx slots       |  | 20.45                     | 20.35 | 20.37  | 21.50                     | 17.45                     | 17.35 | 17.37  | 18.50                     |

| WCDMA II Ant 1 Default        |  |          |       |        |                           |          |        |        |                           |
|-------------------------------|--|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|
|                               |  | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) |
|                               |  | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513   |                           |
| TX Channel                    |  | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           |
| Rx Channel                    |  |          |       |        |                           |          |        |        |                           |
| Frequency (MHz)               |  | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           |
| 3GPP Rel 99 AMR 12.2Kbps      |  | 24.16    | 24.13 | 24.06  | 25.50                     | 24.14    | 24.17  | 24.03  | 25.50                     |
| 3GPP Rel 99 RMC 12.2Kbps      |  | 24.27    | 24.29 | 24.18  | 25.50                     | 24.18    | 24.27  | 24.07  | 25.50                     |
| 3GPP Rel 6 HSDPA Subtest-1    |  | 23.15    | 23.17 | 23.13  | 24.50                     | 23.03    | 23.18  | 22.95  | 24.50                     |
| 3GPP Rel 6 HSDPA Subtest-2    |  | 23.05    | 23.13 | 23.07  | 24.50                     | 22.97    | 23.10  | 22.81  | 24.50                     |
| 3GPP Rel 6 HSDPA Subtest-3    |  | 22.62    | 22.58 | 22.57  | 24.50                     | 22.59    | 22.65  | 22.51  | 24.50                     |
| 3GPP Rel 6 HSDPA Subtest-4    |  | 22.58    | 22.63 | 22.53  | 24.50                     | 22.59    | 22.54  | 22.59  | 24.50                     |
| 3GPP Rel 8 DC-HSDPA Subtest-1 |  | 23.23    | 23.22 | 23.24  | 25.00                     | 23.07    | 23.22  | 23.17  | 25.00                     |
| 3GPP Rel 8 DC-HSDPA Subtest-2 |  | 23.17    | 23.12 | 23.16  | 25.00                     | 23.06    | 23.05  | 23.14  | 25.00                     |
| 3GPP Rel 8 DC-HSDPA Subtest-3 |  | 22.58    | 22.52 | 22.66  | 24.50                     | 22.53    | 22.75  | 22.59  | 24.50                     |
| 3GPP Rel 8 DC-HSDPA Subtest-4 |  | 22.67    | 22.53 | 22.51  | 24.50                     | 22.58    | 22.55  | 22.58  | 24.50                     |
| 3GPP Rel 6 HSUPA Subtest-1    |  | 21.20    | 21.23 | 21.13  | 23.00                     | 21.02    | 21.23  | 21.02  | 23.00                     |
| 3GPP Rel 6 HSUPA Subtest-2    |  | 21.16    | 21.21 | 21.05  | 23.00                     | 21.01    | 21.20  | 21.01  | 23.00                     |
| 3GPP Rel 6 HSUPA Subtest-3    |  | 22.15    | 22.14 | 22.13  | 24.00                     | 22.01    | 22.19  | 22.01  | 24.00                     |
| 3GPP Rel 6 HSUPA Subtest-4    |  | 20.64    | 20.66 | 20.63  | 22.50                     | 20.59    | 20.70  | 20.59  | 22.50                     |
| 3GPP Rel 6 HSUPA Subtest-5    |  | 22.20    | 22.10 | 22.10  | 24.00                     | 22.10    | 22.20  | 22.10  | 24.00                     |

| WCDMA V Ant 1 Default         |  |         |       |       |                           |         |       |       |                           |
|-------------------------------|--|---------|-------|-------|---------------------------|---------|-------|-------|---------------------------|
|                               |  | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
|                               |  | 4132    | 4182  | 4233  |                           | 4132    | 4182  | 4233  |                           |
| TX Channel                    |  | 4357    | 4407  | 4458  |                           | 4357    | 4407  | 4458  |                           |
| Rx Channel                    |  |         |       |       |                           |         |       |       |                           |
| Frequency (MHz)               |  | 826.4   | 836.4 | 846.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99 AMR 12.2Kbps      |  | 24.16   | 24.13 | 24.06 | 25.50                     | 24.14   | 24.17 | 24.03 | 25.50                     |
| 3GPP Rel 99 RMC 12.2Kbps      |  | 24.27   | 24.29 | 24.18 | 25.50                     | 24.18   | 24.27 | 24.07 | 25.50                     |
| 3GPP Rel 6 HSDPA Subtest-1    |  | 23.15   | 23.17 | 23.13 | 24.50                     | 23.03   | 23.18 | 22.95 | 24.50                     |
| 3GPP Rel 6 HSDPA Subtest-2    |  | 23.05   | 23.13 | 23.07 | 24.50                     | 22.97   | 23.10 | 22.81 | 24.50                     |
| 3GPP Rel 6 HSDPA Subtest-3    |  | 22.62   | 22.58 | 22.57 | 24.50                     | 22.59   | 22.65 | 22.51 | 24.50                     |
| 3GPP Rel 6 HSDPA Subtest-4    |  | 22.58   | 22.63 | 22.53 | 24.50                     | 22.59   | 22.54 | 22.59 | 24.50                     |
| 3GPP Rel 8 DC-HSDPA Subtest-1 |  | 23.23   | 23.22 | 23.24 | 25.00                     | 23.07   | 23.22 | 23.17 | 25.00                     |
| 3GPP Rel 8 DC-HSDPA Subtest-2 |  | 23.17   | 23.12 | 23.16 | 25.00                     | 23.06   | 23.05 | 23.14 | 25.00                     |
| 3GPP Rel 8 DC-HSDPA Subtest-3 |  | 22.58   | 22.52 | 22.66 | 24.50                     | 22.53   | 22.75 | 22.59 | 24.50                     |
| 3GPP Rel 8 DC-HSDPA Subtest-4 |  | 22.67   | 22.53 | 22.51 | 24.50                     | 22.58   | 22.55 | 22.58 | 24.50                     |
| 3GPP Rel 6 HSUPA Subtest-1    |  | 21.20   | 21.23 | 21.13 | 23.00                     | 21.02   | 21.23 | 21.02 | 23.00                     |
| 3GPP Rel 6 HSUPA Subtest-2    |  | 21.16   | 21.21 | 21.05 | 23.00                     | 21.01   | 21.20 | 21.01 | 23.00                     |
| 3GPP Rel 6 HSUPA Subtest-3    |  | 22.15   | 22.14 | 22.13 | 24.00                     | 22.01   | 22.19 | 22.01 | 24.00                     |
| 3GPP Rel 6 HSUPA Subtest-4    |  | 20.64   | 20.66 | 20.63 | 22.50                     | 20.59   | 20.70 | 20.59 | 22.50                     |
| 3GPP Rel 6 HSUPA Subtest-5    |  | 22.20   | 22.10 | 22.10 | 24.00                     | 22.10   | 22.20 | 22.10 | 24.00                     |









GSM850 Ant 2 Default

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | TX Channel                | 128   | 189   | 251                 | 128                       | 189   | 251   |                     |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   | 32.26                     | 32.33 | 32.21 | 33.50               | 23.26                     | 23.33 | 23.21 | 24.50               |
| GPRS 1 Tx slot  | 32.34                     | 32.38 | 32.29 | 33.50               | 23.34                     | 23.38 | 23.29 | 24.50               |
| GPRS 2 Tx slots | 30.17                     | 30.11 | 30.02 | 31.00               | 24.17                     | 24.11 | 24.02 | 25.00               |
| GPRS 3 Tx slots | 28.40                     | 28.43 | 28.30 | 29.50               | 24.14                     | 24.17 | 24.04 | 25.24               |
| GPRS 4 Tx slots | 26.46                     | 26.44 | 26.33 | 27.50               | 23.46                     | 23.44 | 23.33 | 24.50               |
| EDGE 1 Tx slot  | 27.06                     | 27.30 | 27.39 | 28.00               | 18.06                     | 18.30 | 18.39 | 19.00               |
| EDGE 2 Tx slots | 24.55                     | 24.78 | 24.88 | 25.50               | 18.55                     | 18.78 | 18.88 | 19.50               |
| EDGE 3 Tx slots | 22.84                     | 23.03 | 23.19 | 24.00               | 18.58                     | 18.77 | 18.93 | 19.74               |
| EDGE 4 Tx slots | 21.56                     | 21.73 | 21.93 | 22.50               | 18.56                     | 18.73 | 18.93 | 19.50               |

GSM1900 Ant 2 Default

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
|                 | TX Channel                | 512   | 661    | 810                 | 512                       | 661   | 810    |                     |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot   | 29.53                     | 29.45 | 29.36  | 30.50               | 20.53                     | 20.45 | 20.36  | 21.50               |
| GPRS 1 Tx slot  | 29.69                     | 29.51 | 29.50  | 30.50               | 20.69                     | 20.51 | 20.50  | 21.50               |
| GPRS 2 Tx slots | 27.27                     | 27.00 | 26.95  | 28.00               | 21.27                     | 21.00 | 20.95  | 22.00               |
| GPRS 3 Tx slots | 25.74                     | 25.82 | 25.68  | 26.50               | 21.48                     | 21.56 | 21.42  | 22.24               |
| GPRS 4 Tx slots | 24.18                     | 23.95 | 24.08  | 25.00               | 21.18                     | 20.95 | 21.08  | 22.00               |
| EDGE 1 Tx slot  | 26.52                     | 26.29 | 26.33  | 27.00               | 17.52                     | 17.29 | 17.33  | 18.00               |
| EDGE 2 Tx slots | 23.92                     | 23.62 | 23.81  | 24.50               | 17.92                     | 17.62 | 17.81  | 18.50               |
| EDGE 3 Tx slots | 22.16                     | 21.91 | 22.17  | 23.00               | 17.90                     | 17.65 | 17.91  | 18.74               |
| EDGE 4 Tx slots | 20.58                     | 20.46 | 20.53  | 21.50               | 17.58                     | 17.46 | 17.53  | 18.50               |

WCDMA II Ant 2 Default

WCDMA IV Ant 2 Default

WCDMA V Ant 2 DS2&4 Default

| Band                          | WCDMA II   |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) | WCDMA V |       |       | Tune-up Limit (dBm) |
|-------------------------------|------------|-------|--------|---------------------|----------|--------|--------|---------------------|---------|-------|-------|---------------------|
|                               | TX Channel | 9262  | 9400   | 9538                | 1312     | 1413   | 1513   |                     | 4132    | 4182  | 4233  |                     |
| Rx Channel                    | 9662       | 9800  | 9938   |                     | 1537     | 1638   | 1738   |                     | 4357    | 4407  | 4458  |                     |
| Frequency (MHz)               | 1852.4     | 1880  | 1907.6 |                     | 1712.4   | 1732.6 | 1752.6 |                     | 826.4   | 836.4 | 846.6 |                     |
| 3GPP Rel 99 AMR 12.2Kbps      | 24.76      | 24.69 | 24.63  | 25.50               | 24.43    | 24.62  | 24.36  | 25.50               | 24.44   | 24.50 | 24.46 | 25.50               |
| 3GPP Rel 99 RMC 12.2Kbps      | 24.81      | 24.52 | 24.79  | 25.50               | 24.52    | 24.73  | 24.41  | 25.50               | 24.56   | 24.59 | 24.53 | 25.50               |
| 3GPP Rel 6 HSDPA Subtest-1    | 23.65      | 23.76 | 23.68  | 24.50               | 23.49    | 23.73  | 23.47  | 24.50               | 23.58   | 23.49 | 23.58 | 24.50               |
| 3GPP Rel 6 HSDPA Subtest-2    | 23.66      | 23.66 | 23.57  | 24.50               | 23.42    | 23.63  | 23.38  | 24.50               | 23.49   | 23.38 | 23.42 | 24.50               |
| 3GPP Rel 6 HSDPA Subtest-3    | 23.15      | 23.12 | 23.11  | 24.50               | 22.96    | 23.12  | 22.89  | 24.50               | 23.01   | 22.90 | 22.94 | 24.50               |
| 3GPP Rel 6 HSDPA Subtest-4    | 23.15      | 23.04 | 23.08  | 24.50               | 22.94    | 23.17  | 22.84  | 24.50               | 23.03   | 22.90 | 22.92 | 24.50               |
| 3GPP Rel 6 DC-HSDPA Subtest-1 | 23.55      | 23.56 | 23.66  | 25.00               | 23.38    | 23.77  | 23.46  | 25.00               | 23.45   | 23.53 | 23.69 | 25.00               |
| 3GPP Rel 6 DC-HSDPA Subtest-2 | 23.60      | 23.64 | 23.68  | 25.00               | 23.40    | 23.57  | 23.47  | 25.00               | 23.51   | 23.49 | 23.32 | 25.00               |
| 3GPP Rel 6 DC-HSDPA Subtest-3 | 23.10      | 23.07 | 23.00  | 24.50               | 22.94    | 23.14  | 22.78  | 24.50               | 22.97   | 22.97 | 22.85 | 24.50               |
| 3GPP Rel 6 DC-HSDPA Subtest-4 | 23.06      | 23.10 | 23.06  | 24.50               | 22.88    | 23.24  | 22.87  | 24.50               | 22.91   | 23.00 | 23.01 | 24.50               |
| 3GPP Rel 6 HSUPA Subtest-1    | 21.71      | 21.76 | 21.70  | 23.00               | 21.48    | 21.79  | 21.52  | 23.00               | 21.52   | 21.43 | 21.49 | 23.00               |
| 3GPP Rel 6 HSUPA Subtest-2    | 21.67      | 21.74 | 21.78  | 23.00               | 21.49    | 21.67  | 21.51  | 23.00               | 21.49   | 21.43 | 21.40 | 23.00               |
| 3GPP Rel 6 HSUPA Subtest-3    | 22.69      | 22.73 | 22.64  | 24.00               | 22.46    | 22.79  | 22.44  | 24.00               | 22.52   | 22.38 | 22.48 | 24.00               |
| 3GPP Rel 6 HSUPA Subtest-4    | 21.20      | 21.27 | 21.19  | 22.50               | 21.08    | 21.22  | 20.93  | 22.50               | 20.97   | 20.90 | 20.95 | 22.50               |
| 3GPP Rel 6 HSUPA Subtest-5    | 22.70      | 22.60 | 22.60  | 24.00               | 22.50    | 22.70  | 22.40  | 24.00               | 22.37   | 22.37 | 22.37 | 24.00               |







| Band 38 Ant2 Default |            |         |           |                       |                          |                        |                     |          |  |  |
|----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel              |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |  |  |
| Frequency (MHz)      |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |  |
| 20                   | QPSK       | 1       | 0         | 24.23                 | 24.27                    | 23.98                  | 25.5                | 0        |  |  |
| 20                   | QPSK       | 1       | 49        | 24.17                 | 24.26                    | 24.23                  |                     |          |  |  |
| 20                   | QPSK       | 1       | 99        | 24.12                 | 24.06                    | 24.10                  |                     |          |  |  |
| 20                   | QPSK       | 50      | 0         | 23.06                 | 23.21                    | 23.05                  | 24.5                | 1        |  |  |
| 20                   | QPSK       | 50      | 24        | 23.17                 | 23.12                    | 23.08                  |                     |          |  |  |
| 20                   | QPSK       | 50      | 50        | 23.16                 | 23.13                    | 23.13                  |                     |          |  |  |
| 20                   | QPSK       | 100     | 0         | 23.13                 | 23.15                    | 23.14                  | 24.5                | 1        |  |  |
| 20                   | 16QAM      | 1       | 0         | 23.11                 | 23.04                    | 23.05                  |                     |          |  |  |
| 20                   | 16QAM      | 1       | 49        | 23.31                 | 23.14                    | 23.29                  |                     |          |  |  |
| 20                   | 16QAM      | 1       | 99        | 23.15                 | 23.12                    | 23.14                  | 23.5                | 2        |  |  |
| 20                   | 16QAM      | 50      | 0         | 22.20                 | 22.21                    | 22.20                  |                     |          |  |  |
| 20                   | 16QAM      | 50      | 24        | 22.34                 | 22.33                    | 22.32                  |                     |          |  |  |
| 20                   | 16QAM      | 50      | 50        | 22.28                 | 22.28                    | 22.25                  | 23.5                | 2        |  |  |
| 20                   | 16QAM      | 100     | 0         | 22.23                 | 22.17                    | 22.22                  |                     |          |  |  |
| 20                   | 64QAM      | 1       | 0         | 21.88                 | 21.99                    | 21.82                  |                     |          |  |  |
| 20                   | 64QAM      | 1       | 49        | 22.10                 | 22.07                    | 22.07                  | 23.5                | 2        |  |  |
| 20                   | 64QAM      | 1       | 99        | 21.93                 | 21.98                    | 21.91                  |                     |          |  |  |
| 20                   | 64QAM      | 50      | 0         | 21.13                 | 21.16                    | 21.12                  |                     |          |  |  |
| 20                   | 64QAM      | 50      | 24        | 21.27                 | 21.26                    | 21.26                  | 22.5                | 3        |  |  |
| 20                   | 64QAM      | 50      | 50        | 21.21                 | 21.20                    | 21.18                  |                     |          |  |  |
| 20                   | 64QAM      | 100     | 0         | 21.26                 | 21.23                    | 21.29                  |                     |          |  |  |
| Channel              |            |         |           | 37825                 | 38000                    | 38175                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)      |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |  |  |
| 15                   | QPSK       | 1       | 0         | 24.13                 | 24.09                    | 23.85                  | 25.5                | 0        |  |  |
| 15                   | QPSK       | 1       | 37        | 23.97                 | 24.11                    | 24.01                  |                     |          |  |  |
| 15                   | QPSK       | 1       | 74        | 24.13                 | 23.90                    | 23.89                  |                     |          |  |  |
| 15                   | QPSK       | 36      | 0         | 22.97                 | 23.15                    | 23.04                  | 24.5                | 1        |  |  |
| 15                   | QPSK       | 36      | 20        | 23.01                 | 23.02                    | 22.89                  |                     |          |  |  |
| 15                   | QPSK       | 36      | 39        | 23.09                 | 23.05                    | 22.91                  |                     |          |  |  |
| 15                   | QPSK       | 75      | 0         | 23.13                 | 23.12                    | 22.99                  | 24.5                | 1        |  |  |
| 15                   | 16QAM      | 1       | 0         | 23.08                 | 23.02                    | 23.01                  |                     |          |  |  |
| 15                   | 16QAM      | 1       | 37        | 23.27                 | 23.10                    | 23.23                  |                     |          |  |  |
| 15                   | 16QAM      | 1       | 74        | 23.12                 | 22.91                    | 22.99                  | 23.5                | 2        |  |  |
| 15                   | 16QAM      | 36      | 0         | 22.10                 | 22.06                    | 22.05                  |                     |          |  |  |
| 15                   | 16QAM      | 36      | 20        | 22.14                 | 22.29                    | 22.31                  |                     |          |  |  |
| 15                   | 16QAM      | 36      | 39        | 22.15                 | 22.15                    | 22.26                  | 23.5                | 2        |  |  |
| 15                   | 16QAM      | 75      | 0         | 22.23                 | 22.16                    | 22.19                  |                     |          |  |  |
| 15                   | 64QAM      | 1       | 0         | 21.74                 | 21.81                    | 21.81                  |                     |          |  |  |
| 15                   | 64QAM      | 1       | 37        | 21.95                 | 22.06                    | 21.86                  | 23.5                | 2        |  |  |
| 15                   | 64QAM      | 1       | 74        | 21.90                 | 21.77                    | 21.75                  |                     |          |  |  |
| 15                   | 64QAM      | 36      | 0         | 21.09                 | 21.15                    | 21.13                  |                     |          |  |  |
| 15                   | 64QAM      | 36      | 20        | 21.18                 | 21.16                    | 21.11                  | 22.5                | 3        |  |  |
| 15                   | 64QAM      | 36      | 39        | 21.18                 | 21.04                    | 21.02                  |                     |          |  |  |
| 15                   | 64QAM      | 75      | 0         | 21.26                 | 21.02                    | 21.30                  |                     |          |  |  |
| Channel              |            |         |           | 37800                 | 38000                    | 38200                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)      |            |         |           | 2575                  | 2595                     | 2615                   |                     |          |  |  |
| 10                   | QPSK       | 1       | 0         | 24.00                 | 24.05                    | 23.83                  | 25.5                | 0        |  |  |
| 10                   | QPSK       | 1       | 25        | 24.01                 | 24.07                    | 24.17                  |                     |          |  |  |
| 10                   | QPSK       | 1       | 49        | 23.92                 | 23.86                    | 23.85                  |                     |          |  |  |
| 10                   | QPSK       | 25      | 0         | 22.88                 | 23.11                    | 23.01                  | 24.5                | 1        |  |  |
| 10                   | QPSK       | 25      | 12        | 22.94                 | 23.05                    | 22.94                  |                     |          |  |  |
| 10                   | QPSK       | 25      | 25        | 22.92                 | 23.01                    | 22.92                  |                     |          |  |  |
| 10                   | QPSK       | 50      | 0         | 22.96                 | 23.04                    | 22.87                  | 24.5                | 1        |  |  |
| 10                   | 16QAM      | 1       | 0         | 22.93                 | 22.92                    | 22.92                  |                     |          |  |  |
| 10                   | 16QAM      | 1       | 25        | 23.09                 | 22.97                    | 23.23                  |                     |          |  |  |
| 10                   | 16QAM      | 1       | 49        | 22.97                 | 23.06                    | 23.04                  | 23.5                | 2        |  |  |
| 10                   | 16QAM      | 25      | 0         | 22.11                 | 22.02                    | 22.01                  |                     |          |  |  |
| 10                   | 16QAM      | 25      | 12        | 22.23                 | 22.26                    | 22.19                  |                     |          |  |  |
| 10                   | 16QAM      | 25      | 25        | 22.12                 | 22.20                    | 22.20                  | 23.5                | 2        |  |  |
| 10                   | 16QAM      | 50      | 0         | 22.20                 | 21.98                    | 22.02                  |                     |          |  |  |
| 10                   | 64QAM      | 1       | 0         | 21.80                 | 21.85                    | 21.58                  |                     |          |  |  |
| 10                   | 64QAM      | 1       | 25        | 21.87                 | 21.83                    | 21.89                  | 23.5                | 2        |  |  |
| 10                   | 64QAM      | 1       | 49        | 21.84                 | 21.91                    | 21.85                  |                     |          |  |  |
| 10                   | 64QAM      | 25      | 0         | 20.97                 | 20.96                    | 20.93                  |                     |          |  |  |
| 10                   | 64QAM      | 25      | 12        | 21.15                 | 21.22                    | 21.07                  | 22.5                | 3        |  |  |
| 10                   | 64QAM      | 25      | 25        | 20.95                 | 21.05                    | 21.10                  |                     |          |  |  |
| 10                   | 64QAM      | 50      | 0         | 21.11                 | 20.97                    | 21.25                  |                     |          |  |  |
| Channel              |            |         |           | 37775                 | 38000                    | 38225                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)      |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |          |  |  |
| 5                    | QPSK       | 1       | 0         | 24.03                 | 24.07                    | 23.79                  | 25.5                | 0        |  |  |
| 5                    | QPSK       | 1       | 12        | 23.98                 | 24.01                    | 24.05                  |                     |          |  |  |
| 5                    | QPSK       | 1       | 24        | 23.93                 | 23.85                    | 23.93                  |                     |          |  |  |
| 5                    | QPSK       | 12      | 0         | 22.76                 | 22.92                    | 22.75                  | 24.5                | 1        |  |  |
| 5                    | QPSK       | 12      | 7         | 22.94                 | 23.00                    | 22.91                  |                     |          |  |  |
| 5                    | QPSK       | 12      | 13        | 22.92                 | 22.91                    | 22.86                  |                     |          |  |  |
| 5                    | QPSK       | 25      | 0         | 22.94                 | 23.05                    | 22.85                  | 24.5                | 1        |  |  |
| 5                    | 16QAM      | 1       | 0         | 22.94                 | 22.79                    | 22.83                  |                     |          |  |  |
| 5                    | 16QAM      | 1       | 12        | 23.17                 | 22.89                    | 23.06                  |                     |          |  |  |
| 5                    | 16QAM      | 1       | 24        | 22.90                 | 22.89                    | 22.94                  | 23.5                | 2        |  |  |
| 5                    | 16QAM      | 12      | 0         | 21.95                 | 22.06                    | 22.04                  |                     |          |  |  |
| 5                    | 16QAM      | 12      | 7         | 22.11                 | 22.19                    | 22.16                  |                     |          |  |  |
| 5                    | 16QAM      | 12      | 13        | 22.05                 | 21.97                    | 21.93                  | 23.5                | 2        |  |  |
| 5                    | 16QAM      | 25      | 0         | 21.98                 | 21.93                    | 21.99                  |                     |          |  |  |
| 5                    | 64QAM      | 1       | 0         | 21.69                 | 21.90                    | 21.73                  |                     |          |  |  |
| 5                    | 64QAM      | 1       | 12        | 21.94                 | 21.76                    | 21.88                  | 23.5                | 2        |  |  |
| 5                    | 64QAM      | 1       | 24        | 21.74                 | 21.80                    | 21.78                  |                     |          |  |  |
| 5                    | 64QAM      | 12      | 0         | 20.97                 | 21.01                    | 20.98                  |                     |          |  |  |
| 5                    | 64QAM      | 12      | 7         | 20.99                 | 20.99                    | 21.11                  | 22.5                | 3        |  |  |
| 5                    | 64QAM      | 12      | 13        | 21.06                 | 20.99                    | 21.09                  |                     |          |  |  |
| 5                    | 64QAM      | 25      | 0         | 21.16                 | 20.95                    | 21.18                  |                     |          |  |  |

| Band 41 Ant2 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              |            |         |           | 38750                                                                                                         | 40185                                                                                           | 40620                                                                            | 41055                                                               | 41490                                                 |                     |          |
| Frequency (MHz)      |            |         |           | 2506                                                                                                          | 2549.5                                                                                          | 2593                                                                             | 2636.5                                                              | 2680                                                  |                     |          |
| 20                   | QPSK       | 1       | 0         | 24.28                                                                                                         | 24.21                                                                                           | 24.34                                                                            | 24.22                                                               | 24.31                                                 | 25.5                | 0        |
| 20                   | QPSK       | 1       | 49        | 24.33                                                                                                         | 24.19                                                                                           | 24.09                                                                            | 24.23                                                               | 24.33                                                 |                     |          |
| 20                   | QPSK       | 1       | 99        | 24.07                                                                                                         | 24.13                                                                                           | 24.07                                                                            | 24.16                                                               | 24.09                                                 |                     |          |
| 20                   | QPSK       | 50      | 0         | 23.12                                                                                                         | 22.99                                                                                           | 23.25                                                                            | 23.10                                                               | 23.19                                                 | 24.5                | 1        |
| 20                   | QPSK       | 50      | 24        | 23.18                                                                                                         | 23.10                                                                                           | 23.00                                                                            | 23.15                                                               | 23.23                                                 |                     |          |
| 20                   | QPSK       | 50      | 50        | 23.23                                                                                                         | 23.05                                                                                           | 23.00                                                                            | 23.03                                                               | 23.12                                                 |                     |          |
| 20                   | QPSK       | 100     | 0         | 23.22                                                                                                         | 23.03                                                                                           | 23.23                                                                            | 23.14                                                               | 23.09                                                 | 24.5                | 1        |
| 20                   | 16QAM      | 1       | 0         | 23.27                                                                                                         | 22.98                                                                                           | 23.19                                                                            | 23.06                                                               | 23.12                                                 |                     |          |
| 20                   | 16QAM      | 1       | 49        | 23.24                                                                                                         | 23.14                                                                                           | 23.13                                                                            | 23.27                                                               | 23.31                                                 |                     |          |
| 20                   | 16QAM      | 1       | 99        | 23.14                                                                                                         | 23.24                                                                                           | 22.98                                                                            | 23.09                                                               | 23.07                                                 | 23.5                | 2        |
| 20                   | 16QAM      | 50      | 0         | 22.22                                                                                                         | 22.08                                                                                           | 22.05                                                                            | 22.19                                                               | 22.32                                                 |                     |          |
| 20                   | 16QAM      | 50      | 24        | 22.35                                                                                                         | 22.19                                                                                           | 22.13                                                                            | 22.29                                                               | 22.37                                                 |                     |          |
| 20                   | 16QAM      | 50      | 50        | 22.35                                                                                                         | 22.19                                                                                           | 22.15                                                                            | 22.19                                                               | 22.24                                                 | 23.5                | 2        |
| 20                   | 16QAM      | 100     | 0         | 22.29                                                                                                         | 22.12                                                                                           | 22.07                                                                            | 22.21                                                               | 22.30                                                 |                     |          |
| 20                   | 64QAM      | 1       | 0         | 22.43                                                                                                         | 22.40                                                                                           | 22.36                                                                            | 22.48                                                               | 22.39                                                 |                     |          |
| 20                   | 64QAM      | 1       | 49        | 22.67                                                                                                         | 22.51                                                                                           | 22.41                                                                            | 22.57                                                               | 22.65                                                 | 23.5                | 2        |
| 20                   | 64QAM      | 1       | 99        | 22.41                                                                                                         | 22.37                                                                                           | 22.49                                                                            | 22.39                                                               | 22.37                                                 | 22.5                | 3        |
| 20                   | 64QAM      | 50      | 0         | 21.66                                                                                                         | 21.51                                                                                           | 21.47                                                                            | 21.64                                                               | 21.75                                                 |                     |          |
| 20                   | 64QAM      | 50      | 24        | 21.79                                                                                                         | 21.65                                                                                           | 21.58                                                                            | 21.73                                                               | 21.85                                                 |                     |          |
| 20                   | 64QAM      | 50      | 50        | 21.77                                                                                                         | 21.63                                                                                           | 21.58                                                                            | 21.61                                                               | 21.68                                                 | 23.5                | 2        |
| 20                   | 64QAM      | 100     | 0         | 21.80                                                                                                         | 21.65                                                                                           | 21.62                                                                            | 21.73                                                               | 21.85                                                 |                     |          |
| 20                   | 64QAM      | 100     | 0         | 23.023                                                                                                        | 40.173                                                                                          | 40.620                                                                           | 41.058                                                              | 41.515                                                |                     |          |
| Channel              |            |         |           | 25015 <th>2546.3<th>2593<th>2637.8<th>2682.5<th>Tune-up limit (dBm)</th><th>MPR (dB)</th></th></th></th></th> | 2546.3 <th>2593<th>2637.8<th>2682.5<th>Tune-up limit (dBm)</th><th>MPR (dB)</th></th></th></th> | 2593 <th>2637.8<th>2682.5<th>Tune-up limit (dBm)</th><th>MPR (dB)</th></th></th> | 2637.8 <th>2682.5<th>Tune-up limit (dBm)</th><th>MPR (dB)</th></th> | 2682.5 <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> | Tune-up limit (dBm) | MPR (dB) |
| 15                   | QPSK       | 1       | 0         | 24.27                                                                                                         | 24.17                                                                                           | 24.24                                                                            | 24.03                                                               | 24.26                                                 | 25.50               | 0        |
| 15                   | QPSK       | 1       | 37        | 24.17                                                                                                         | 24.03                                                                                           | 23.90                                                                            | 24.17                                                               | 24.20                                                 |                     |          |
| 15                   | QPSK       | 1       | 74        | 24.04                                                                                                         | 24.08                                                                                           | 23.88                                                                            | 24.12                                                               | 24.03                                                 |                     |          |
| 15                   | QPSK       | 36      | 0         | 23.11                                                                                                         | 22.85                                                                                           | 23.20                                                                            | 23.09                                                               | 23.07                                                 | 24.5                | 1        |
| 15                   | QPSK       | 36      | 20        | 23.10                                                                                                         | 23.10                                                                                           | 22.97                                                                            | 23.01                                                               | 23.08                                                 |                     |          |
| 15                   | QPSK       | 36      | 50        | 23.17                                                                                                         | 22.89                                                                                           | 22.89                                                                            | 22.94                                                               | 23.02                                                 |                     |          |
| 15                   | QPSK       | 75      | 0         | 23.17                                                                                                         | 22.88                                                                                           | 23.06                                                                            | 23.04                                                               | 23.06                                                 | 24.5                | 1        |
| 15                   | 16QAM      | 1       | 0         | 23.24                                                                                                         | 22.87                                                                                           | 23.17                                                                            | 22.95                                                               | 22.98                                                 |                     |          |
| 15                   | 16QAM      | 1       | 37        | 23.06                                                                                                         | 22.99                                                                                           | 23.11                                                                            | 23.25                                                               | 23.14                                                 |                     |          |
| 15                   | 16QAM      | 1       | 74        | 23.11                                                                                                         | 23.16                                                                                           | 22.98                                                                            | 22.93                                                               | 23.02                                                 | 23.5                | 2        |
| 15                   | 16QAM      | 36      | 0         | 22.22                                                                                                         | 22.01                                                                                           | 21.91                                                                            | 22.07                                                               | 22.12                                                 |                     |          |
| 15                   | 16QAM      | 36      | 20        | 22.28                                                                                                         | 22.13                                                                                           | 22.02                                                                            | 22.13                                                               | 22.27                                                 |                     |          |
| 15                   | 16QAM      | 36      | 50        | 22.29                                                                                                         | 22.12                                                                                           | 22.01                                                                            | 22.12                                                               | 22.19                                                 | 23.5                | 2        |
| 15                   | 16QAM      | 75      | 0         | 22.23                                                                                                         | 22.06                                                                                           | 22.03                                                                            | 22.06                                                               | 22.27                                                 |                     |          |
| 15                   | 64QAM      | 1       | 0         | 22.31                                                                                                         | 22.32                                                                                           | 22.28                                                                            | 22.48                                                               | 22.35                                                 |                     |          |
| 15                   | 64QAM      | 1       | 37        | 22.84                                                                                                         | 22.47                                                                                           | 22.36                                                                            | 22.42                                                               | 22.55                                                 | 23.5                | 2        |
| 15                   | 64QAM      | 1       | 74        | 22.35                                                                                                         | 22.27                                                                                           | 22.38                                                                            | 22.33                                                               | 22.35                                                 |                     |          |
| 15                   | 64QAM      | 36      | 0         | 21.53                                                                                                         | 21.43                                                                                           | 21.44                                                                            | 21.56                                                               | 21.71                                                 |                     |          |
| 15                   | 64QAM      | 36      | 20        | 21.77                                                                                                         | 21.64                                                                                           | 21.56                                                                            | 21.70                                                               | 21.71                                                 | 22.5                | 3        |
| 15                   | 64QAM      | 36      | 50        | 21.76                                                                                                         | 21.47                                                                                           | 21.46                                                                            | 21.58                                                               | 21.63                                                 |                     |          |
| 15                   | 64QAM      | 75      | 0         | 21.67                                                                                                         | 21.47                                                                                           | 21.56                                                                            | 21.63                                                               | 21.80                                                 |                     |          |
| Channel              |            |         |           | 38700                                                                                                         | 40160                                                                                           | 40620                                                                            | 41080                                                               | 41540                                                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)      |            |         |           | 2501 <th>2547<th>2593<th>2639<th>2685</th><th></th><th></th></th></th></th>                                   | 2547 <th>2593<th>2639<th>2685</th><th></th><th></th></th></th>                                  | 2593 <th>2639<th>2685</th><th></th><th></th></th>                                | 2639 <th>2685</th> <th></th> <th></th>                              | 2685                                                  |                     |          |
| 10                   | QPSK       | 1       | 0         | 24.07                                                                                                         | 23.97                                                                                           | 24.16                                                                            | 24.16                                                               | 24.07                                                 | 25.50               | 0        |
| 10                   | QPSK       | 1       | 25        | 24.11                                                                                                         | 24.00                                                                                           | 24.04                                                                            | 24.08                                                               | 24.09                                                 |                     |          |
| 10                   | QPSK       | 1       | 49        | 24.01                                                                                                         | 23.99                                                                                           | 23.89                                                                            | 24.10                                                               | 23.84                                                 |                     |          |
| 10                   | QPSK       | 1       | 0         | 22.99                                                                                                         | 22.91                                                                                           | 23.02                                                                            | 22.91                                                               | 23.12                                                 | 24.5                | 1        |
| 10                   | QPSK       | 25      | 12        | 23.04                                                                                                         | 23.03                                                                                           | 22.85                                                                            | 22.93                                                               | 23.07                                                 |                     |          |
| 10                   | QPSK       | 25      | 25        | 23.05                                                                                                         | 22.97                                                                                           | 22.91                                                                            | 22.98                                                               | 22.97                                                 |                     |          |
| 10                   | QPSK       | 50      | 0         | 23.07                                                                                                         | 22.97                                                                                           | 23.00                                                                            | 22.99                                                               | 22.84                                                 | 24.5                | 1        |
| 10                   | 16QAM      | 1       | 0         | 23.09                                                                                                         | 22.89                                                                                           | 22.99                                                                            | 22.96                                                               | 22.94                                                 |                     |          |
| 10                   | 16QAM      | 1       | 25        | 23.17                                                                                                         | 23.02                                                                                           | 22.91                                                                            | 23.05                                                               | 23.13                                                 |                     |          |
| 10                   | 16QAM      | 1       | 49        | 22.90                                                                                                         | 23.02                                                                                           | 22.90                                                                            | 22.97                                                               | 23.01                                                 | 23.5                | 2        |
| 10                   | 16QAM      | 25      | 0         | 22.04                                                                                                         | 21.84                                                                                           | 22.00                                                                            | 22.08                                                               | 22.21                                                 |                     |          |
| 10                   | 16QAM      | 25      | 12        | 22.20                                                                                                         | 21.84                                                                                           | 21.91                                                                            | 22.10                                                               | 22.18                                                 |                     |          |
| 10                   | 16QAM      | 25      | 25        | 22.23                                                                                                         | 22.03                                                                                           | 21.92                                                                            | 21.98                                                               | 22.09                                                 | 23.5                | 2        |
| 10                   | 16QAM      | 50      | 0         | 22.13                                                                                                         | 22.06                                                                                           | 21.93                                                                            | 22.09                                                               | 22.19                                                 |                     |          |
| 10                   | 64QAM      | 1       | 0         | 22.28                                                                                                         | 22.28                                                                                           | 22.34                                                                            | 22.31                                                               | 22.29                                                 |                     |          |
| 10                   | 64QAM      | 1       | 25        | 22.43                                                                                                         | 22.37                                                                                           | 22.23                                                                            | 22.49                                                               | 22.49                                                 | 23.5                | 2        |
| 10                   | 64QAM      | 1       | 49        | 22.32                                                                                                         | 22.31                                                                                           | 22.34                                                                            | 22.34                                                               | 22.22                                                 |                     |          |
| 10                   | 64QAM      | 25      | 0         | 21.60                                                                                                         | 21.32                                                                                           | 21.38                                                                            | 21.51                                                               | 21.55                                                 |                     |          |
| 10                   | 64QAM      | 25      | 12        | 21.65                                                                                                         | 21.35                                                                                           | 21.39                                                                            | 21.45                                                               | 21.67                                                 | 22.5                | 3        |
| 10                   | 64QAM      | 25      | 25        | 21.63                                                                                                         | 21.35                                                                                           | 21.35                                                                            | 21.52                                                               | 21.55                                                 |                     |          |
| 10                   | 64QAM      | 50      | 0         | 21.74                                                                                                         | 21.42                                                                                           | 21.55                                                                            | 21.61                                                               | 21.87                                                 |                     |          |
| Channel              |            |         |           | 38675 <th>40148<th>40620<th>41093<th>41555</th><th>Tune-up limit (dBm)</th><th>MPR (dB)</th></th></th></th>   | 40148 <th>40620<th>41093<th>41555</th><th>Tune-up limit (dBm)</th><th>MPR (dB)</th></th></th>   | 40620 <th>41093<th>41555</th><th>Tune-up limit (dBm)</th><th>MPR (dB)</th></th>  | 41093 <th>41555</th> <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> | 41555                                                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)      |            |         |           | 2498.5 <th>2545.8<th>2593<th>2640.30<th>2687.5</th><th></th><th></th></th></th></th>                          | 2545.8 <th>2593<th>2640.30<th>2687.5</th><th></th><th></th></th></th>                           | 2593 <th>2640.30<th>2687.5</th><th></th><th></th></th>                           | 2640.30 <th>2687.5</th> <th></th> <th></th>                         | 2687.5                                                |                     |          |
| 5                    | QPSK       | 1       | 0         | 24.01                                                                                                         | 24.10                                                                                           | 24.08                                                                            | 24.01                                                               | 24.14                                                 | 25.50               | 0        |
| 5                    | QPSK       | 1       | 12        | 24.14                                                                                                         | 23.95                                                                                           | 23.90                                                                            | 24.02                                                               | 24.11                                                 |                     |          |
| 5                    | QPSK       | 1       | 24        | 23.84                                                                                                         | 23.83                                                                                           | 23.91                                                                            | 23.97                                                               | 23.97                                                 |                     |          |
| 5                    | QPSK       | 12      | 0         | 23.91                                                                                                         | 22.84                                                                                           | 23.13                                                                            | 23.10                                                               | 23.15                                                 | 24.5                | 1        |
| 5                    | QPSK       | 12      | 7         | 23.07                                                                                                         | 22.96                                                                                           | 22.83                                                                            | 23.02                                                               | 22.99                                                 |                     |          |
| 5                    | QPSK       | 12      | 13        | 23.11                                                                                                         | 22.81                                                                                           | 22.83                                                                            | 22.84                                                               | 23.00                                                 |                     |          |
| 5                    | QPSK       | 25      | 0         | 23.09                                                                                                         | 22.80                                                                                           | 23.09                                                                            | 22.89                                                               | 22.88                                                 | 24.5                | 1        |
| 5                    | 16QAM      | 1       | 0         | 22.99                                                                                                         | 22.87                                                                                           | 23.04                                                                            | 22.81                                                               | 22.88                                                 |                     |          |
| 5                    | 16QAM      | 1       | 12        | 23.06                                                                                                         | 22.90                                                                                           | 23.02                                                                            | 23.08                                                               | 23.12                                                 |                     |          |
| 5                    | 16QAM      | 1       | 24        | 22.93                                                                                                         | 22.97                                                                                           | 22.86                                                                            | 22.91                                                               | 22.80                                                 | 23.5                | 2        |
| 5                    | 16QAM      | 12      | 0         | 22.03                                                                                                         | 21.86                                                                                           | 21.93                                                                            | 22.10                                                               | 22.05                                                 |                     |          |
| 5                    | 16QAM      | 12      | 7         | 22.12                                                                                                         | 21.92                                                                                           | 21.85                                                                            | 22.12                                                               | 22.14                                                 |                     |          |
| 5                    | 16QAM      | 12      | 13        | 22.19                                                                                                         | 21.90                                                                                           | 21.96                                                                            | 22.04                                                               | 22.08                                                 | 23.5                | 2        |
| 5                    | 16QAM      | 25      | 0         | 22.14                                                                                                         | 21.84                                                                                           | 21.87                                                                            | 22.02                                                               | 22.14                                                 |                     |          |
| 5                    | 64QAM      | 1       | 0         | 22.23                                                                                                         | 22.10                                                                                           | 22.06                                                                            | 22.27                                                               | 22.22                                                 |                     |          |
| 5                    | 64QAM      | 1       | 12        | 22.38                                                                                                         | 22.31                                                                                           | 22.24                                                                            | 22.29                                                               | 22.39                                                 | 23.5                | 2        |
| 5                    | 64QAM      | 1       | 24        | 22.28                                                                                                         | 22.20                                                                                           | 22.37                                                                            | 22.28                                                               | 22.09                                                 |                     |          |
| 5                    | 64QAM      | 12      | 0         | 21.56                                                                                                         | 21.33                                                                                           | 21.29                                                                            | 21.46                                                               | 21.54                                                 |                     |          |
| 5                    | 64QAM      | 12      | 7         | 21.55                                                                                                         | 21.54                                                                                           | 21.35                                                                            | 21.56                                                               | 21.61                                                 | 22.5                | 3        |
| 5                    | 64QAM      | 12      | 13        | 21.53                                                                                                         | 21.33                                                                                           | 21.29                                                                            | 21.45                                                               | 21.44                                                 |                     |          |
| 5                    | 64QAM      | 25      | 0         | 21.61                                                                                                         | 21.54                                                                                           | 21.48                                                                            | 21.57                                                               | 21.75                                                 |                     |          |

| Band 2 Ant4 Default |            |         |           |                          |                             |                           |                        |             |  |  |
|---------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|--|--|
| BW (MHz)            | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Channel             |            |         |           | 18700                    | 18900                       | 19100                     |                        |             |  |  |
| Frequency (MHz)     |            |         |           | 1860                     | 1880                        | 1900                      |                        |             |  |  |
| 20                  | QPSK       | 1       | 0         | 24.48                    | 24.67                       | 24.87                     | 25.5                   | 0           |  |  |
| 20                  | QPSK       | 1       | 49        | 24.31                    | 24.47                       | 24.44                     |                        |             |  |  |
| 20                  | QPSK       | 1       | 99        | 24.38                    | 24.59                       | 24.37                     |                        |             |  |  |
| 20                  | QPSK       | 50      | 0         | 23.59                    | 23.70                       | 23.50                     | 24.5                   | 1           |  |  |
| 20                  | QPSK       | 50      | 24        | 23.47                    | 23.55                       | 23.56                     |                        |             |  |  |
| 20                  | QPSK       | 50      | 50        | 23.29                    | 23.35                       | 23.40                     |                        |             |  |  |
| 20                  | QPSK       | 100     | 0         | 23.45                    | 23.62                       | 23.42                     | 24.5                   | 1           |  |  |
| 20                  | 16QAM      | 1       | 0         | 23.39                    | 23.65                       | 23.48                     |                        |             |  |  |
| 20                  | 16QAM      | 1       | 49        | 23.26                    | 23.50                       | 23.46                     |                        |             |  |  |
| 20                  | 16QAM      | 1       | 99        | 23.33                    | 23.56                       | 23.38                     | 23.5                   | 2           |  |  |
| 20                  | 16QAM      | 50      | 0         | 22.53                    | 22.52                       | 22.41                     |                        |             |  |  |
| 20                  | 16QAM      | 50      | 24        | 22.33                    | 22.57                       | 22.47                     |                        |             |  |  |
| 20                  | 16QAM      | 50      | 50        | 22.28                    | 22.54                       | 22.41                     | 23.5                   | 2           |  |  |
| 20                  | 16QAM      | 100     | 0         | 22.43                    | 22.66                       | 22.33                     |                        |             |  |  |
| 20                  | 64QAM      | 1       | 0         | 22.56                    | 22.65                       | 22.40                     | 23.5                   | 2           |  |  |
| 20                  | 64QAM      | 1       | 49        | 22.47                    | 22.74                       | 22.44                     |                        |             |  |  |
| 20                  | 64QAM      | 1       | 99        | 22.28                    | 22.39                       | 22.52                     |                        |             |  |  |
| 20                  | 64QAM      | 50      | 0         | 21.51                    | 21.56                       | 21.41                     | 22.5                   | 3           |  |  |
| 20                  | 64QAM      | 50      | 24        | 21.50                    | 21.77                       | 21.51                     |                        |             |  |  |
| 20                  | 64QAM      | 50      | 50        | 21.46                    | 21.67                       | 21.47                     |                        |             |  |  |
| 20                  | 64QAM      | 100     | 0         | 21.19                    | 21.50                       | 21.57                     | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Channel             |            |         |           | 18675                    | 18900                       | 19125                     |                        |             |  |  |
| Frequency (MHz)     |            |         |           | 1857.5                   | 1880                        | 1902.5                    |                        |             |  |  |
| 15                  | QPSK       | 1       | 0         | 24.34                    | 24.49                       | 24.40                     | 25.5                   | 0           |  |  |
| 15                  | QPSK       | 1       | 37        | 24.32                    | 24.46                       | 24.39                     |                        |             |  |  |
| 15                  | QPSK       | 1       | 74        | 24.21                    | 24.57                       | 24.34                     |                        |             |  |  |
| 15                  | QPSK       | 36      | 0         | 23.51                    | 23.49                       | 23.45                     | 24.5                   | 1           |  |  |
| 15                  | QPSK       | 36      | 20        | 23.40                    | 23.52                       | 23.37                     |                        |             |  |  |
| 15                  | QPSK       | 36      | 39        | 23.23                    | 23.14                       | 23.38                     |                        |             |  |  |
| 15                  | QPSK       | 75      | 0         | 23.45                    | 23.47                       | 23.37                     | 24.5                   | 1           |  |  |
| 15                  | 16QAM      | 1       | 0         | 23.18                    | 23.47                       | 23.44                     |                        |             |  |  |
| 15                  | 16QAM      | 1       | 37        | 23.09                    | 23.44                       | 23.40                     |                        |             |  |  |
| 15                  | 16QAM      | 1       | 74        | 23.30                    | 23.55                       | 23.23                     | 23.5                   | 2           |  |  |
| 15                  | 16QAM      | 36      | 0         | 22.38                    | 22.42                       | 22.33                     |                        |             |  |  |
| 15                  | 16QAM      | 36      | 20        | 22.20                    | 22.30                       | 22.26                     |                        |             |  |  |
| 15                  | 16QAM      | 36      | 39        | 22.10                    | 22.33                       | 22.38                     | 23.5                   | 2           |  |  |
| 15                  | 16QAM      | 75      | 0         | 22.34                    | 22.60                       | 22.23                     |                        |             |  |  |
| 15                  | 64QAM      | 1       | 0         | 22.38                    | 22.44                       | 22.33                     |                        |             |  |  |
| 15                  | 64QAM      | 1       | 37        | 22.31                    | 22.53                       | 22.25                     | 23.5                   | 2           |  |  |
| 15                  | 64QAM      | 1       | 74        | 22.06                    | 22.40                       | 22.38                     |                        |             |  |  |
| 15                  | 64QAM      | 36      | 0         | 21.34                    | 21.47                       | 21.24                     |                        |             |  |  |
| 15                  | 64QAM      | 36      | 20        | 21.39                    | 21.59                       | 21.36                     | 22.5                   | 3           |  |  |
| 15                  | 64QAM      | 36      | 39        | 21.39                    | 21.58                       | 21.29                     |                        |             |  |  |
| 15                  | 64QAM      | 75      | 0         | 21.08                    | 21.35                       | 21.48                     |                        |             |  |  |
| Channel             |            |         |           | 18650                    | 18900                       | 19150                     | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)     |            |         |           | 1855                     | 1880                        | 1905                      |                        |             |  |  |
| 10                  | QPSK       | 1       | 0         | 24.41                    | 24.47                       | 24.38                     |                        |             |  |  |
| 10                  | QPSK       | 1       | 25        | 24.30                    | 24.35                       | 24.39                     | 25.5                   | 0           |  |  |
| 10                  | QPSK       | 1       | 49        | 24.37                    | 24.42                       | 24.27                     |                        |             |  |  |
| 10                  | QPSK       | 25      | 0         | 23.55                    | 23.69                       | 23.45                     |                        |             |  |  |
| 10                  | QPSK       | 25      | 12        | 23.28                    | 23.55                       | 23.44                     | 24.5                   | 1           |  |  |
| 10                  | QPSK       | 25      | 25        | 23.19                    | 23.32                       | 23.33                     |                        |             |  |  |
| 10                  | QPSK       | 50      | 0         | 23.32                    | 23.50                       | 23.33                     |                        |             |  |  |
| 10                  | 16QAM      | 1       | 0         | 23.40                    | 23.61                       | 23.49                     | 24.5                   | 1           |  |  |
| 10                  | 16QAM      | 1       | 25        | 23.24                    | 23.49                       | 23.26                     |                        |             |  |  |
| 10                  | 16QAM      | 1       | 49        | 23.13                    | 23.56                       | 23.16                     |                        |             |  |  |
| 10                  | 16QAM      | 25      | 0         | 22.38                    | 22.31                       | 22.37                     | 23.5                   | 2           |  |  |
| 10                  | 16QAM      | 25      | 12        | 22.16                    | 22.36                       | 22.48                     |                        |             |  |  |
| 10                  | 16QAM      | 25      | 25        | 22.26                    | 22.33                       | 22.36                     |                        |             |  |  |
| 10                  | 16QAM      | 50      | 0         | 22.32                    | 22.65                       | 22.34                     | 23.5                   | 2           |  |  |
| 10                  | 64QAM      | 1       | 0         | 22.58                    | 22.45                       | 22.26                     |                        |             |  |  |
| 10                  | 64QAM      | 1       | 25        | 22.38                    | 22.56                       | 22.36                     |                        |             |  |  |
| 10                  | 64QAM      | 1       | 49        | 22.11                    | 22.37                       | 22.32                     | 22.5                   | 3           |  |  |
| 10                  | 64QAM      | 25      | 0         | 21.42                    | 21.50                       | 21.39                     |                        |             |  |  |
| 10                  | 64QAM      | 25      | 12        | 21.51                    | 21.75                       | 21.47                     |                        |             |  |  |
| 10                  | 64QAM      | 25      | 25        | 21.35                    | 21.47                       | 21.40                     | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| 10                  | 64QAM      | 50      | 0         | 21.11                    | 21.35                       | 21.57                     |                        |             |  |  |
| Channel             |            |         |           | 18625                    | 18900                       | 19175                     |                        |             |  |  |
| Frequency (MHz)     |            |         |           | 1852.5                   | 1880                        | 1907.5                    |                        |             |  |  |
| 5                   | QPSK       | 1       | 0         | 24.37                    | 24.52                       | 24.43                     | 25.5                   | 0           |  |  |
| 5                   | QPSK       | 1       | 12        | 24.16                    | 24.42                       | 24.33                     |                        |             |  |  |
| 5                   | QPSK       | 1       | 24        | 24.31                    | 24.60                       | 24.15                     |                        |             |  |  |
| 5                   | QPSK       | 12      | 0         | 23.41                    | 23.62                       | 23.43                     | 24.5                   | 1           |  |  |
| 5                   | QPSK       | 12      | 7         | 23.35                    | 23.55                       | 23.48                     |                        |             |  |  |
| 5                   | QPSK       | 12      | 13        | 23.16                    | 23.13                       | 23.23                     |                        |             |  |  |
| 5                   | QPSK       | 25      | 0         | 23.44                    | 23.43                       | 23.23                     | 24.5                   | 1           |  |  |
| 5                   | 16QAM      | 1       | 0         | 23.21                    | 23.53                       | 23.32                     |                        |             |  |  |
| 5                   | 16QAM      | 1       | 12        | 23.08                    | 23.57                       | 23.26                     |                        |             |  |  |
| 5                   | 16QAM      | 1       | 24        | 23.24                    | 23.46                       | 23.31                     | 24.5                   | 1           |  |  |
| 5                   | 16QAM      | 12      | 0         | 22.52                    | 22.46                       | 22.28                     |                        |             |  |  |
| 5                   | 16QAM      | 12      | 7         | 22.29                    | 22.54                       | 22.41                     |                        |             |  |  |
| 5                   | 16QAM      | 12      | 13        | 22.18                    | 22.32                       | 22.42                     | 23.5                   | 2           |  |  |
| 5                   | 16QAM      | 25      | 0         | 22.22                    | 22.55                       | 22.24                     |                        |             |  |  |
| 5                   | 64QAM      | 1       | 0         | 22.46                    | 22.57                       | 22.23                     |                        |             |  |  |
| 5                   | 64QAM      | 1       | 12        | 22.42                    | 22.70                       | 22.22                     | 23.5                   | 2           |  |  |
| 5                   | 64QAM      | 1       | 24        | 22.23                    | 22.36                       | 22.31                     |                        |             |  |  |
| 5                   | 64QAM      | 12      | 0         | 21.38                    | 21.44                       | 21.33                     |                        |             |  |  |
| 5                   | 64QAM      | 12      | 7         | 21.45                    | 21.63                       | 21.35                     | 22.5                   | 3           |  |  |
| 5                   | 64QAM      | 12      | 13        | 21.36                    | 21.54                       | 21.34                     |                        |             |  |  |
| 5                   | 64QAM      | 25      | 0         | 21.18                    | 21.30                       | 21.44                     |                        |             |  |  |
| Channel             |            |         |           | 18615                    | 18900                       | 19185                     | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)     |            |         |           | 1851.5                   | 1880                        | 1908.5                    |                        |             |  |  |
| 3                   | QPSK       | 1       | 0         | 24.36                    | 24.62                       | 24.46                     |                        |             |  |  |
| 3                   | QPSK       | 1       | 8         | 24.13                    | 24.44                       | 24.34                     | 25.5                   | 0           |  |  |
| 3                   | QPSK       | 1       | 14        | 24.35                    | 24.45                       | 24.25                     |                        |             |  |  |
| 3                   | QPSK       | 8       | 0         | 23.51                    | 23.49                       | 23.35                     |                        |             |  |  |
| 3                   | QPSK       | 8       | 4         | 23.43                    | 23.38                       | 23.48                     | 24.5                   | 1           |  |  |
| 3                   | QPSK       | 8       | 7         | 23.10                    | 23.28                       | 23.21                     |                        |             |  |  |
| 3                   | QPSK       | 15      | 0         | 23.45                    | 23.55                       | 23.29                     |                        |             |  |  |
| 3                   | 16QAM      | 1       | 0         | 23.40                    | 23.51                       | 23.30                     | 24.5                   | 1           |  |  |
| 3                   | 16QAM      | 1       | 8         | 23.21                    | 23.43                       | 23.35                     |                        |             |  |  |
| 3                   | 16QAM      | 1       | 14        | 23.34                    | 23.58                       | 23.34                     |                        |             |  |  |
| 3                   | 16QAM      | 8       | 0         | 22.51                    | 22.35                       | 22.25                     | 23.5                   | 2           |  |  |
| 3                   | 16QAM      | 8       | 4         | 22.20                    | 22.56                       | 22.39                     |                        |             |  |  |
| 3                   | 16QAM      | 8       | 7         | 22.21                    | 22.47                       | 22.40                     |                        |             |  |  |
| 3                   | 16QAM      | 15      | 0         | 22.32                    | 22.57                       | 22.24                     | 23.5                   | 2           |  |  |
| 3                   | 64QAM      | 1       | 0         | 22.56                    | 22.66                       | 22.34                     |                        |             |  |  |
| 3                   | 64QAM      | 1       | 8         | 22.47                    | 22.66                       | 22.30                     |                        |             |  |  |
| 3                   | 64QAM      | 1       | 14        | 22.22                    | 22.28                       | 22.52                     | 22.5                   | 3           |  |  |
| 3                   | 64QAM      | 8       | 0         | 21.33                    | 21.51                       | 21.40                     |                        |             |  |  |
| 3                   | 64QAM      | 8       | 4         | 21.50                    | 21.56                       | 21.30                     | 22.5                   | 3           |  |  |
| 3                   | 64QAM      | 8       | 7         | 21.33                    | 21.67                       | 21.32                     |                        |             |  |  |
| 3                   | 64QAM      | 15      | 0         | 21.14                    | 21.34                       | 21.56                     |                        |             |  |  |
| Channel             |            |         |           | 18607                    | 18900                       | 19193                     | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)     |            |         |           | 18507                    | 1880                        | 19093                     |                        |             |  |  |
| 1.4                 | QPSK       | 1       | 0         | 24.24                    | 24.47                       | 24.34                     |                        |             |  |  |
| 1.4                 | QPSK       | 1       | 3         | 24.04                    | 24.44                       | 24.31                     | 25.5                   | 0           |  |  |
| 1.4                 | QPSK       | 3       | 0         | 24.21                    | 24.50                       | 24.42                     |                        |             |  |  |
| 1.4                 | QPSK       | 3       | 1         | 24.11                    | 24.36                       | 24.20                     |                        |             |  |  |
| 1.4                 | QPSK       | 3       | 3         | 24.21                    | 24.26                       | 24.13                     | 24.5                   | 1           |  |  |
| 1.4                 | QPSK       | 6       | 0         | 23.17                    | 23.44                       | 23.14                     |                        |             |  |  |
| 1.4                 | 16QAM      | 1       | 0         | 23.33                    | 23.37                       | 23.29                     |                        |             |  |  |
| 1.4                 | 16QAM      | 1       | 3         | 23.07                    | 23.34                       | 23.24                     | 24.5                   | 1           |  |  |
| 1.4                 | 16QAM      | 1       | 5         | 23.26                    | 23.39                       | 23.16                     |                        |             |  |  |
| 1.4                 | 16QAM      | 3       | 0         | 23.37                    | 23.45                       | 23.24                     |                        |             |  |  |
| 1.4                 | 16QAM      | 3       | 1         | 23.19                    | 23.29                       | 23.15                     | 23.5                   | 2           |  |  |
| 1.4                 | 16QAM      | 3       | 3         | 23.14                    | 23.52                       | 23.23                     |                        |             |  |  |
| 1.4                 | 16QAM      | 6       | 0         | 22.25                    | 22.50                       | 22.22                     |                        |             |  |  |
| 1.4                 | 16QAM      | 1       | 0         | 22.52                    | 22.48                       | 22.31                     | 23.5                   | 2           |  |  |
| 1.4                 | 64QAM      | 1       | 3         | 22.47                    | 22.48                       | 22.32                     |                        |             |  |  |
| 1.4                 | 64QAM      | 1       | 5         | 22.10                    | 22.16                       | 22.43                     |                        |             |  |  |
| 1.4                 | 64QAM      | 3       | 1         | 22.56                    | 22.52                       | 22.13                     | 22.5                   | 3           |  |  |
| 1.4                 | 64QAM      | 3       | 1         | 22.40                    | 22.23                       | 22.19                     |                        |             |  |  |
| 1.4                 | 64QAM      | 3       | 3         | 22.16                    | 22.14                       | 22.50                     |                        |             |  |  |
| 1.4                 | 64QAM      | 6       | 0         | 21.00                    | 21.40                       | 21.45                     | 22.5                   | 3           |  |  |





| GSM1900 Ant 1 DS1t |                           |        |        |                     |                           |        |        |                     |  |
|--------------------|---------------------------|--------|--------|---------------------|---------------------------|--------|--------|---------------------|--|
| TX Channel         | Burst Average Power (dBm) |        |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |        |        | Tune-up Limit (dBm) |  |
|                    | 512                       | 661    | 810    |                     | 512                       | 661    | 810    |                     |  |
| FREQUENCY (MHz)    | 1850.2                    | 1850.2 | 1850.2 | 1850.2              | 1850.2                    | 1850.2 | 1850.2 | 1850.2              |  |
| GSM 1 Tx slot      | 29.24                     | 29.49  | 29.59  | 30.50               | 20.84                     | 20.49  | 20.99  | 21.50               |  |
| GSM 1 Tx slot      | 29.24                     | 29.50  | 29.61  | 30.50               | 20.83                     | 20.50  | 20.61  | 21.50               |  |
| GPRS 2 Tx slots    | 27.14                     | 26.99  | 27.20  | 28.00               | 21.14                     | 20.99  | 21.20  | 22.00               |  |
| GPRS 3 Tx slots    | 25.33                     | 25.47  | 25.31  | 26.50               | 21.07                     | 21.21  | 21.05  | 22.24               |  |
| GPRS 4 Tx slots    | 24.05                     | 23.91  | 24.13  | 25.00               | 21.05                     | 20.91  | 21.13  | 22.00               |  |
| EDGE 1 Tx slot     | 26.01                     | 25.87  | 25.96  | 27.00               | 17.01                     | 16.87  | 16.96  | 18.00               |  |
| EDGE 2 Tx slots    | 23.46                     | 23.47  | 23.46  | 24.00               | 17.57                     | 17.56  | 17.57  | 18.50               |  |
| EDGE 3 Tx slots    | 21.83                     | 21.80  | 21.81  | 23.00               | 17.57                     | 17.54  | 17.55  | 18.74               |  |
| EDGE 4 Tx slots    | 20.45                     | 20.35  | 20.37  | 21.50               | 17.45                     | 17.35  | 17.37  | 18.50               |  |

|                 |                    | WCDMA II Ant 1 DS1t |       |        |                     | WCDMA IV Ant 1 DS1t |        |        |                     | WCDMA V Ant 1 DS1t |       |       |                     |
|-----------------|--------------------|---------------------|-------|--------|---------------------|---------------------|--------|--------|---------------------|--------------------|-------|-------|---------------------|
| Band            |                    | WCDMA II            |       |        | Tune-up Limit (dBm) | WCDMA IV            |        |        | Tune-up Limit (dBm) | WCDMA V            |       |       | Tune-up Limit (dBm) |
| TX Channel      | Rx Channel         | 9262                | 9400  | 9538   |                     | 1312                | 1413   | 1513   |                     | 4132               | 4182  | 4233  |                     |
| Frequency (MHz) |                    | 9622                | 9800  | 9938   |                     | 1537                | 1638   | 1738   |                     | 4357               | 4407  | 4458  |                     |
|                 |                    | 1852.4              | 1880  | 1907.6 |                     | 1712.4              | 1732.6 | 1752.6 |                     | 826.4              | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 24.16               | 24.13 | 24.06  | 25.50               | 24.14               | 24.17  | 24.03  | 25.50               | 24.33              | 24.43 | 24.23 | 25.50               |
| 3GPP Rel 99     | RMIC 12.2Kbps      | 24.27               | 24.29 | 24.16  | 25.50               | 24.18               | 24.27  | 24.07  | 25.50               | 24.43              | 24.55 | 24.33 | 25.50               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 23.15               | 23.17 | 23.13  | 24.50               | 23.03               | 23.18  | 22.95  | 24.50               | 23.62              | 23.61 | 23.66 | 24.50               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 23.05               | 23.13 | 23.07  | 24.50               | 22.97               | 23.10  | 22.81  | 24.50               | 23.53              | 23.56 | 23.58 | 24.50               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 22.62               | 22.58 | 22.57  | 24.50               | 22.59               | 22.65  | 22.51  | 24.50               | 23.03              | 23.06 | 23.11 | 24.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 22.58               | 22.63 | 22.53  | 24.50               | 22.58               | 22.54  | 22.59  | 24.50               | 23.05              | 23.06 | 23.09 | 24.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 23.23               | 23.22 | 23.24  | 25.00               | 23.07               | 23.22  | 23.17  | 25.00               | 23.54              | 23.72 | 23.70 | 25.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 23.17               | 23.12 | 23.16  | 25.00               | 23.06               | 23.05  | 23.14  | 25.00               | 23.52              | 23.45 | 23.57 | 25.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 22.58               | 22.52 | 22.66  | 24.50               | 22.53               | 22.75  | 22.59  | 24.50               | 22.96              | 22.98 | 23.11 | 24.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 22.67               | 22.53 | 22.51  | 24.50               | 22.58               | 22.52  | 22.58  | 24.50               | 22.95              | 22.99 | 23.14 | 24.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 21.23               | 21.23 | 21.13  | 23.00               | 21.18               | 21.20  | 21.02  | 23.00               | 21.56              | 21.48 | 21.63 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 21.16               | 21.21 | 21.05  | 23.00               | 21.01               | 21.20  | 21.01  | 23.00               | 21.56              | 21.48 | 21.63 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 22.15               | 22.14 | 22.13  | 24.00               | 22.01               | 22.19  | 22.01  | 24.00               | 22.63              | 22.56 | 22.63 | 24.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 20.64               | 20.66 | 20.63  | 22.50               | 20.59               | 20.70  | 20.59  | 22.50               | 21.03              | 20.99 | 21.10 | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 22.20               | 22.10 | 22.10  | 24.00               | 22.10               | 22.20  | 22.10  | 24.00               | 22.50              | 22.40 | 22.50 | 24.00               |







| Band 38 Ant1 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           |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |  |
| Frequency (MHz)   |            |         |           | 2520                  | 2525                     | 2510                   |                     |          |  |
| 20                | QPSK       | 1       | 0         | 23.80                 | 23.52                    | 23.84                  | 25.5                | 0        |  |
| 20                | QPSK       | 1       | 49        | 23.79                 | 23.68                    | 23.86                  |                     |          |  |
| 20                | QPSK       | 1       | 99        | 23.85                 | 23.75                    | 23.76                  |                     |          |  |
| 20                | QPSK       | 50      | 0         | 22.82                 | 22.81                    | 22.76                  | 24.5                | 1        |  |
| 20                | QPSK       | 50      | 24        | 22.93                 | 22.94                    | 22.92                  |                     |          |  |
| 20                | QPSK       | 50      | 50        | 22.96                 | 22.88                    | 22.88                  |                     |          |  |
| 20                | QPSK       | 100     | 0         | 22.88                 | 22.85                    | 22.82                  | 24.5                | 1        |  |
| 20                | 16QAM      | 1       | 0         | 23.13                 | 23.10                    | 23.04                  |                     |          |  |
| 20                | 16QAM      | 1       | 49        | 23.32                 | 23.28                    | 23.25                  |                     |          |  |
| 20                | 16QAM      | 1       | 99        | 23.19                 | 23.09                    | 23.10                  | 23.5                | 2        |  |
| 20                | 16QAM      | 50      | 0         | 21.96                 | 22.01                    | 21.99                  |                     |          |  |
| 20                | 16QAM      | 50      | 24        | 22.06                 | 22.11                    | 22.05                  |                     |          |  |
| 20                | 16QAM      | 50      | 50        | 22.01                 | 22.04                    | 22.01                  | 23.5                | 2        |  |
| 20                | 16QAM      | 100     | 0         | 21.95                 | 21.86                    | 21.86                  |                     |          |  |
| 20                | 64QAM      | 1       | 0         | 21.98                 | 21.98                    | 22.02                  |                     |          |  |
| 20                | 64QAM      | 1       | 49        | 22.18                 | 22.26                    | 22.10                  | 23.5                | 2        |  |
| 20                | 64QAM      | 1       | 99        | 22.04                 | 21.97                    | 21.97                  |                     |          |  |
| 20                | 64QAM      | 50      | 0         | 20.85                 | 20.93                    | 20.93                  |                     |          |  |
| 20                | 64QAM      | 50      | 24        | 21.04                 | 20.99                    | 21.06                  | 22.5                | 3        |  |
| 20                | 64QAM      | 50      | 50        | 20.97                 | 20.95                    | 20.88                  |                     |          |  |
| 20                | 64QAM      | 100     | 0         | 20.99                 | 20.99                    | 20.87                  |                     |          |  |
| Channel           |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |  |
| Frequency (MHz)   |            |         |           | 2577.5                | 2585                     | 2612.5                 |                     |          |  |
| 15                | QPSK       | 1       | 0         | 23.65                 | 23.88                    | 23.61                  | 25.5                | 0        |  |
| 15                | QPSK       | 1       | 37        | 23.81                 | 23.61                    | 23.82                  |                     |          |  |
| 15                | QPSK       | 1       | 74        | 23.79                 | 23.58                    | 23.69                  |                     |          |  |
| 15                | QPSK       | 36      | 0         | 22.73                 | 22.81                    | 22.60                  | 24.5                | 1        |  |
| 15                | QPSK       | 36      | 20        | 22.87                 | 22.84                    | 22.84                  |                     |          |  |
| 15                | QPSK       | 36      | 36        | 22.85                 | 22.76                    | 22.87                  |                     |          |  |
| 15                | QPSK       | 75      | 0         | 22.71                 | 22.73                    | 22.73                  | 24.5                | 1        |  |
| 15                | 16QAM      | 1       | 0         | 22.97                 | 23.10                    | 23.02                  |                     |          |  |
| 15                | 16QAM      | 1       | 37        | 23.22                 | 23.16                    | 23.09                  |                     |          |  |
| 15                | 16QAM      | 1       | 74        | 22.98                 | 22.88                    | 23.00                  | 23.5                | 2        |  |
| 15                | 16QAM      | 36      | 0         | 21.77                 | 21.90                    | 21.76                  |                     |          |  |
| 15                | 16QAM      | 36      | 20        | 21.90                 | 22.04                    | 22.06                  |                     |          |  |
| 15                | 16QAM      | 36      | 36        | 21.82                 | 21.83                    | 22.00                  | 23.5                | 2        |  |
| 15                | 16QAM      | 75      | 0         | 21.87                 | 21.78                    | 21.79                  |                     |          |  |
| 15                | 64QAM      | 1       | 0         | 21.91                 | 21.88                    | 21.94                  |                     |          |  |
| 15                | 64QAM      | 1       | 37        | 21.99                 | 22.10                    | 21.90                  | 23.5                | 2        |  |
| 15                | 64QAM      | 1       | 74        | 21.98                 | 21.96                    | 21.97                  |                     |          |  |
| 15                | 64QAM      | 36      | 0         | 20.66                 | 20.79                    | 20.89                  |                     |          |  |
| 15                | 64QAM      | 36      | 20        | 21.05                 | 20.90                    | 20.96                  | 22.5                | 3        |  |
| 15                | 64QAM      | 36      | 36        | 20.96                 | 20.96                    | 20.75                  |                     |          |  |
| 15                | 64QAM      | 75      | 0         | 21.00                 | 20.94                    | 20.75                  |                     |          |  |
| Channel           |            |         |           | 37800                 | 38000                    | 38200                  |                     |          |  |
| Frequency (MHz)   |            |         |           | 2575                  | 2585                     | 2615                   |                     |          |  |
| 10                | QPSK       | 1       | 0         | 23.74                 | 23.61                    | 23.63                  | 25.5                | 0        |  |
| 10                | QPSK       | 1       | 25        | 23.66                 | 23.80                    | 23.72                  |                     |          |  |
| 10                | QPSK       | 1       | 49        | 23.66                 | 23.73                    | 23.60                  |                     |          |  |
| 10                | QPSK       | 25      | 0         | 22.69                 | 22.92                    | 22.64                  | 24.5                | 1        |  |
| 10                | QPSK       | 25      | 12        | 22.88                 | 22.73                    | 22.76                  |                     |          |  |
| 10                | QPSK       | 25      | 25        | 22.77                 | 22.79                    | 22.76                  |                     |          |  |
| 10                | QPSK       | 50      | 0         | 22.74                 | 22.74                    | 22.73                  | 24.5                | 1        |  |
| 10                | 16QAM      | 1       | 0         | 22.93                 | 23.10                    | 23.04                  |                     |          |  |
| 10                | 16QAM      | 1       | 25        | 23.18                 | 23.29                    | 23.17                  |                     |          |  |
| 10                | 16QAM      | 1       | 49        | 23.06                 | 22.99                    | 22.94                  | 24.5                | 1        |  |
| 10                | 16QAM      | 25      | 0         | 21.82                 | 21.82                    | 21.97                  |                     |          |  |
| 10                | 16QAM      | 25      | 12        | 21.92                 | 22.02                    | 21.93                  |                     |          |  |
| 10                | 16QAM      | 25      | 25        | 21.88                 | 22.03                    | 21.94                  | 23.5                | 2        |  |
| 10                | 16QAM      | 50      | 0         | 21.87                 | 21.82                    | 21.85                  |                     |          |  |
| 10                | 64QAM      | 1       | 0         | 21.92                 | 21.90                    | 21.91                  |                     |          |  |
| 10                | 64QAM      | 1       | 25        | 22.04                 | 22.19                    | 22.02                  | 23.5                | 2        |  |
| 10                | 64QAM      | 1       | 49        | 21.91                 | 21.96                    | 21.98                  |                     |          |  |
| 10                | 64QAM      | 25      | 0         | 20.68                 | 20.84                    | 20.75                  |                     |          |  |
| 10                | 64QAM      | 25      | 12        | 20.86                 | 20.81                    | 21.02                  | 22.5                | 3        |  |
| 10                | 64QAM      | 25      | 25        | 20.79                 | 20.73                    | 20.90                  |                     |          |  |
| 10                | 64QAM      | 50      | 0         | 20.99                 | 21.00                    | 20.83                  |                     |          |  |
| Channel           |            |         |           | 37875                 | 38000                    | 38225                  |                     |          |  |
| Frequency (MHz)   |            |         |           | 2572.5                | 2585                     | 2617.5                 |                     |          |  |
| 5                 | QPSK       | 1       | 0         | 23.56                 | 23.74                    | 23.57                  | 25.5                | 0        |  |
| 5                 | QPSK       | 1       | 12        | 23.57                 | 23.50                    | 23.77                  |                     |          |  |
| 5                 | QPSK       | 1       | 24        | 23.66                 | 23.60                    | 23.57                  |                     |          |  |
| 5                 | QPSK       | 12      | 0         | 22.62                 | 22.76                    | 22.58                  | 24.5                | 1        |  |
| 5                 | QPSK       | 12      | 7         | 22.66                 | 22.72                    | 22.68                  |                     |          |  |
| 5                 | QPSK       | 12      | 13        | 22.80                 | 22.70                    | 22.61                  |                     |          |  |
| 5                 | QPSK       | 25      | 0         | 22.59                 | 22.68                    | 22.72                  | 24.5                | 1        |  |
| 5                 | 16QAM      | 1       | 0         | 23.00                 | 22.81                    | 22.89                  |                     |          |  |
| 5                 | 16QAM      | 1       | 12        | 23.13                 | 23.06                    | 22.95                  |                     |          |  |
| 5                 | 16QAM      | 1       | 24        | 22.92                 | 22.88                    | 22.96                  | 24.5                | 1        |  |
| 5                 | 16QAM      | 12      | 0         | 21.85                 | 21.89                    | 21.88                  |                     |          |  |
| 5                 | 16QAM      | 12      | 7         | 21.93                 | 21.91                    | 21.86                  |                     |          |  |
| 5                 | 16QAM      | 12      | 13        | 21.78                 | 21.83                    | 21.79                  | 23.5                | 2        |  |
| 5                 | 16QAM      | 25      | 0         | 21.87                 | 21.81                    | 21.71                  |                     |          |  |
| 5                 | 64QAM      | 1       | 0         | 21.79                 | 21.80                    | 21.88                  |                     |          |  |
| 5                 | 64QAM      | 1       | 12        | 22.02                 | 22.13                    | 21.88                  | 23.5                | 2        |  |
| 5                 | 64QAM      | 1       | 24        | 21.89                 | 21.82                    | 21.74                  |                     |          |  |
| 5                 | 64QAM      | 12      | 0         | 20.65                 | 20.79                    | 20.78                  |                     |          |  |
| 5                 | 64QAM      | 12      | 7         | 20.94                 | 20.86                    | 20.87                  | 22.5                | 3        |  |
| 5                 | 64QAM      | 12      | 13        | 20.81                 | 20.64                    | 20.58                  |                     |          |  |
| 5                 | 64QAM      | 25      | 0         | 20.79                 | 20.73                    | 20.78                  |                     |          |  |

| Band 41 Ant1 DSI1 |            |         |           |                       |                              |                               |                        |                     |                            |          |  |
|-------------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)                   |          |  |
| Channel           |            |         |           | 39750                 | 40165                        | 40620                         | 41055                  | 41490               |                            |          |  |
| Frequency (MHz)   |            |         |           | 2520                  | 25415                        | 2520                          | 25335                  | 2520                |                            |          |  |
| 20                | QPSK       | 1       | 0         | 23.60                 | 23.58                        | 23.64                         | 23.65                  | 23.62               | 25.5                       | 0        |  |
| 20                | QPSK       | 1       | 49        | 23.85                 | 23.83                        | 23.87                         | 23.84                  | 23.68               |                            |          |  |
| 20                | QPSK       | 1       | 99        | 23.57                 | 23.72                        | 23.64                         | 23.64                  | 23.63               |                            |          |  |
| 20                | QPSK       | 50      | 0         | 22.71                 | 22.67                        | 22.67                         | 22.83                  | 22.79               | 24.5                       | 1        |  |
| 20                | QPSK       | 50      | 24        | 22.85                 | 22.90                        | 22.75                         | 22.89                  | 22.84               |                            |          |  |
| 20                | QPSK       | 50      | 50        | 22.80                 | 22.79                        | 22.85                         | 22.72                  | 22.73               |                            |          |  |
| 20                | QPSK       | 100     | 0         | 22.72                 | 22.72                        | 22.85                         | 22.78                  | 22.83               | 24.5                       | 1        |  |
| 20                | 16QAM      | 1       | 0         | 23.13                 | 22.89                        | 23.02                         | 22.98                  | 23.05               |                            |          |  |
| 20                | 16QAM      | 1       | 49        | 22.96                 | 22.85                        | 22.88                         | 22.97                  | 23.14               |                            |          |  |
| 20                | 16QAM      | 1       | 99        | 23.15                 | 22.94                        | 23.12                         | 23.08                  | 22.96               | 23.5                       | 2        |  |
| 20                | 16QAM      | 50      | 0         | 21.83                 | 21.86                        | 21.92                         | 22.30                  | 21.94               |                            |          |  |
| 20                | 16QAM      | 50      | 24        | 21.93                 | 21.99                        | 21.97                         | 22.03                  | 22.06               |                            |          |  |
| 20                | 16QAM      | 50      | 50        | 21.99                 | 22.00                        | 21.92                         | 21.82                  | 21.91               | 23.5                       | 2        |  |
| 20                | 16QAM      | 100     | 0         | 21.84                 | 21.86                        | 21.88                         | 21.93                  | 21.82               |                            |          |  |
| 20                | 64QAM      | 1       | 0         | 21.96                 | 22.05                        | 22.06                         | 21.99                  | 22.03               |                            |          |  |
| 20                | 64QAM      | 1       | 49        | 22.13                 | 22.14                        | 22.25                         | 22.06                  | 22.13               | 23.5                       | 2        |  |
| 20                | 64QAM      | 1       | 99        | 22.08                 | 22.09                        | 22.15                         | 22.11                  | 22.04               |                            |          |  |
| 20                | 64QAM      | 50      | 0         | 20.77                 | 20.74                        | 20.81                         | 20.81                  | 20.94               |                            |          |  |
| 20                | 64QAM      | 50      | 24        | 20.86                 | 20.88                        | 20.86                         | 20.97                  | 20.90               | 22.5                       | 3        |  |
| 20                | 64QAM      | 50      | 50        | 20.84                 | 20.83                        | 21.00                         | 20.85                  | 20.78               |                            |          |  |
| 20                | 64QAM      | 100     | 0         | 20.79                 | 20.76                        | 20.88                         | 20.82                  | 20.89               |                            |          |  |
| Channel           |            |         |           | 39750                 | 40165                        | 40620                         | 41055                  | 41490               |                            |          |  |
| Frequency (MHz)   |            |         |           | 2503.5                | 2548.3                       | 2593                          | 2637.8                 | 2682.5              | Tune-up limit (dBm)        | MPR (dB) |  |
| 15                | QPSK       | 1       | 0         | 23.56                 | 23.56                        | 23.78                         | 23.56                  | 23.58               | 25.50                      | 0        |  |
| 15                | QPSK       | 1       | 37        | 23.67                 | 23.71                        | 23.72                         | 23.62                  | 23.59               |                            |          |  |
| 15                | QPSK       | 1       | 74        | 23.59                 | 23.58                        | 23.64                         | 23.54                  | 23.56               |                            |          |  |
| 15                | QPSK       | 36      | 0         | 22.64                 | 22.62                        | 22.90                         | 22.83                  | 22.58               | 24.5                       | 1        |  |
| 15                | QPSK       | 36      | 20        | 22.84                 | 22.83                        | 22.63                         | 22.72                  | 22.62               |                            |          |  |
| 15                | QPSK       | 36      | 39        | 22.61                 | 22.75                        | 22.75                         | 22.69                  | 22.74               |                            |          |  |
| 15                | QPSK       | 75      | 0         | 22.80                 | 22.68                        | 22.80                         | 22.71                  | 22.75               | 24.5                       | 1        |  |
| 15                | 16QAM      | 1       | 0         | 23.01                 | 22.82                        | 22.99                         | 22.99                  | 22.88               |                            |          |  |
| 15                | 16QAM      | 1       | 37        | 22.92                 | 22.76                        | 22.78                         | 22.87                  | 23.05               |                            |          |  |
| 15                | 16QAM      | 1       | 74        | 23.04                 | 22.78                        | 22.79                         | 22.97                  | 22.96               | 23.5                       | 2        |  |
| 15                | 16QAM      | 36      | 0         | 21.71                 | 21.77                        | 21.50                         | 21.91                  | 21.81               |                            |          |  |
| 15                | 16QAM      | 36      | 20        | 21.81                 | 21.96                        | 21.78                         | 22.00                  | 21.96               |                            |          |  |
| 15                | 16QAM      | 75      | 0         | 21.82                 | 21.79                        | 21.80                         | 21.70                  | 21.71               | 22.5                       | 3        |  |
| 15                | 16QAM      | 75      | 0         | 21.75                 | 21.69                        | 21.75                         | 21.86                  | 21.82               |                            |          |  |
| 15                | 64QAM      | 1       | 0         | 21.80                 | 21.56                        | 21.94                         | 21.99                  | 21.90               |                            |          |  |
| 15                | 64QAM      | 1       | 37        | 21.84                 | 22.21                        | 22.09                         | 21.99                  | 22.12               | 22.5                       | 2        |  |
| 15                | 64QAM      | 1       | 74        | 21.89                 | 21.98                        | 21.98                         | 22.12                  | 21.88               |                            |          |  |
| 15                | 64QAM      | 36      | 0         | 20.61                 | 20.87                        | 20.70                         | 20.79                  | 20.84               |                            |          |  |
| 15                | 64QAM      | 36      | 20        | 20.73                 | 20.80                        | 20.87                         | 20.96                  | 20.78               | 22.5                       | 3        |  |
| 15                | 64QAM      | 36      | 39        | 20.72                 | 20.61                        | 20.80                         | 20.70                  | 20.80               |                            |          |  |
| 15                | 64QAM      | 75      | 0         | 20.70                 | 20.61                        | 20.66                         | 20.76                  | 20.75               |                            |          |  |
| Channel           |            |         |           | 39700                 | 40160                        | 40620                         | 41080                  | 41540               | Tune-up limit (dBm)        | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 2501                  | 2547                         | 2593                          | 2633                   | 2683                | 25.50                      | 0        |  |
| 10                | QPSK       | 1       | 25        | 23.52                 | 23.57                        | 23.69                         | 23.71                  | 23.64               | 25.50                      | 0        |  |
| 10                | QPSK       | 1       | 49        | 23.51                 | 23.56                        | 23.53                         | 23.69                  | 23.57               |                            |          |  |
| 10                | QPSK       | 25      | 0         | 22.53                 | 22.56                        | 22.85                         | 22.77                  | 22.57               |                            |          |  |
| 10                | QPSK       | 25      | 0         | 22.66                 | 22.72                        | 22.63                         | 22.73                  | 22.68               | 24.5                       | 1        |  |
| 10                | QPSK       | 25      | 25        | 22.77                 | 22.61                        | 22.63                         | 22.56                  | 22.51               |                            |          |  |
| 10                | QPSK       | 50      | 0         | 22.61                 | 22.68                        | 22.71                         | 22.64                  | 22.58               |                            |          |  |
| 10                | 16QAM      | 1       | 0         | 22.50                 | 22.83                        | 22.71                         | 22.90                  | 22.84               | 24.5                       | 1        |  |
| 10                | 16QAM      | 1       | 25        | 22.74                 | 22.70                        | 22.69                         | 22.82                  | 22.90               |                            |          |  |
| 10                | 16QAM      | 1       | 49        | 23.07                 | 22.76                        | 22.94                         | 22.93                  | 22.86               |                            |          |  |
| 10                | 16QAM      | 25      | 0         | 21.78                 | 21.68                        | 21.66                         | 21.69                  | 21.71               | 23.5                       | 2        |  |
| 10                | 16QAM      | 25      | 12        | 21.85                 | 21.88                        | 21.85                         | 21.97                  | 22.00               |                            |          |  |
| 10                | 16QAM      | 25      | 25        | 21.76                 | 21.83                        | 21.68                         | 21.69                  | 21.77               |                            |          |  |
| 10                | 16QAM      | 50      | 0         | 21.74                 | 21.81                        | 21.68                         | 21.68                  | 21.57               | 23.5                       | 2        |  |
| 10                | 64QAM      | 1       | 0         | 21.79                 | 21.83                        | 21.71                         | 21.92                  | 21.77               |                            |          |  |
| 10                | 64QAM      | 1       | 25        | 21.97                 | 21.90                        | 22.11                         | 21.89                  | 22.07               |                            |          |  |
| 10                | 64QAM      | 1       | 49        | 21.83                 | 22.04                        | 22.03                         | 21.87                  | 21.97               | 22.5                       | 3        |  |
| 10                | 64QAM      | 25      | 0         | 20.57                 | 20.63                        | 20.75                         | 20.78                  | 20.85               |                            |          |  |
| 10                | 64QAM      | 25      | 12        | 20.77                 | 20.66                        | 20.88                         | 20.76                  | 20.86               |                            |          |  |
| 10                | 64QAM      | 25      | 25        | 20.80                 | 20.59                        | 20.74                         | 20.73                  | 20.52               | 25.50                      | 0        |  |
| 10                | 64QAM      | 50      | 0         | 20.64                 | 20.60                        | 20.74                         | 20.63                  | 20.71               |                            |          |  |
| 10                | 64QAM      | 50      | 25        | 20.62                 | 20.55                        | 20.69                         | 20.63                  | 20.58               |                            |          |  |
| Channel           |            |         |           | 2498.5                | 2545.8                       | 2593                          | 2640.30                | 2687.5              | Tune-up limit (dBm)        | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 2498.5                | 2545.8                       | 2593                          | 2640.30                | 2687.5              | 25.50 <td>0</td> <td></td> | 0        |  |
| 5                 | QPSK       | 1       | 0         | 23.59                 | 23.53                        | 23.63                         | 23.51                  | 23.53               | 25.50                      | 0        |  |
| 5                 | QPSK       | 1       | 12        | 23.58                 | 23.62                        | 23.55                         | 23.59                  | 23.63               |                            |          |  |
| 5                 | QPSK       | 1       | 24        | 23.63                 | 23.50                        | 23.55                         | 23.51                  | 23.59               |                            |          |  |
| 5                 | QPSK       | 12      | 0         | 22.62                 | 22.55                        | 22.74                         | 22.59                  | 22.68               | 24.5                       | 1        |  |
| 5                 | QPSK       | 12      | 7         | 22.55                 | 22.74                        | 22.66                         | 22.62                  | 22.76               |                            |          |  |
| 5                 | QPSK       | 1       | 12        | 22.52                 | 22.54                        | 22.62                         | 22.59                  | 22.65               |                            |          |  |
| 5                 | QPSK       | 25      | 0         | 23.62                 | 22.52                        | 22.57                         | 22.68                  | 22.72               | 24.5                       | 1        |  |
| 5                 | 16QAM      | 1       | 0         | 23.03                 | 22.76                        | 22.78                         | 22.90                  | 22.76               |                            |          |  |
| 5                 | 16QAM      | 1       | 12        | 22.70                 | 22.70                        | 22.69                         | 22.67                  | 23.08               |                            |          |  |
| 5                 | 16QAM      | 1       | 24        | 22.85                 | 22.72                        | 22.82                         | 22.83                  | 22.87               | 23.5                       | 2        |  |
| 5                 | 16QAM      | 12      | 0         | 21.85                 | 21.88                        | 21.81                         | 21.74                  | 21.85               |                            |          |  |
| 5                 | 16QAM      | 12      | 7         | 21.62                 | 21.73                        | 21.66                         | 21.85                  | 21.79               |                            |          |  |
| 5                 | 16QAM      | 25      | 0         | 21.75                 | 21.81                        | 21.81                         | 21.84                  | 21.92               | 23.5                       | 2        |  |
| 5                 | 16QAM      | 25      | 0         | 21.74                 | 21.69                        | 21.72                         | 21.81                  | 21.58               |                            |          |  |
| 5                 | 64QAM      | 1       | 0         | 21.67                 | 21.94                        | 21.88                         | 21.79                  | 21.89               |                            |          |  |
| 5                 | 64QAM      | 1       | 12        | 21.86                 | 22.00                        | 22.06                         | 21.90                  | 21.96               | 23.5                       | 2        |  |
| 5                 | 64QAM      | 1       | 24        | 21.85                 | 21.78                        | 21.81                         | 21.84                  | 21.92               |                            |          |  |
| 5                 | 64QAM      | 12      | 0         | 20.62                 | 20.64                        | 20.56                         | 20.55                  | 20.76               |                            |          |  |
| 5                 | 64QAM      | 12      | 7         | 20.67                 | 20.70                        | 20.82                         | 20.79                  | 20.67               | 22.5                       | 3        |  |
| 5                 | 64QAM      | 25      | 0         | 20.69                 | 20.60                        | 20.67                         | 20.67                  | 20.58               |                            |          |  |
| 5                 | 64QAM      | 25      | 0         | 20.53                 | 20.64                        | 20.58                         | 20.72                  | 20.77               |                            |          |  |

GSM850 Ant 2 DSIt

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| TX Channel      | 824.2                     | 836.4 | 848.8 | 824.2               | 836.4                     | 848.8 |       |                     |
| Frequency (MHz) | 32.26                     | 32.33 | 32.21 | 33.50               | 23.26                     | 23.33 | 23.21 | 24.50               |
| GPRS 1 Tx slot  | 32.34                     | 32.38 | 32.29 | 33.50               | 23.34                     | 23.38 | 23.29 | 24.50               |
| GPRS 2 Tx slots | 30.17                     | 30.11 | 30.02 | 31.00               | 24.17                     | 24.11 | 24.02 | 25.00               |
| GPRS 3 Tx slots | 28.40                     | 28.43 | 28.30 | 29.50               | 24.14                     | 24.17 | 24.04 | 25.24               |
| GPRS 4 Tx slots | 26.46                     | 26.44 | 26.33 | 27.50               | 23.46                     | 23.44 | 23.33 | 24.50               |
| EDGE 1 Tx slot  | 27.06                     | 27.30 | 27.39 | 28.00               | 18.06                     | 18.30 | 18.39 | 19.00               |
| EDGE 2 Tx slots | 24.55                     | 24.78 | 24.88 | 25.50               | 18.55                     | 18.78 | 18.88 | 19.50               |
| EDGE 3 Tx slots | 22.84                     | 23.03 | 23.19 | 24.00               | 18.58                     | 18.77 | 18.93 | 19.74               |
| EDGE 4 Tx slots | 21.56                     | 21.73 | 21.83 | 22.50               | 18.56                     | 18.73 | 18.93 | 19.50               |

GSM1900 Ant 2 DSIt

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |        |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|--------|-------|---------------------|
|                 | 512                       | 661   | 810    |                     | 512                       | 661    | 810   |                     |
| TX Channel      | 1850.2                    | 1880  | 1909.8 | 1850.2              | 1880                      | 1909.8 |       |                     |
| Frequency (MHz) | 24.03                     | 23.84 | 24.05  | 24.50               | 15.03                     | 14.84  | 15.05 | 15.50               |
| GPRS 1 Tx slot  | 23.98                     | 23.76 | 23.91  | 24.50               | 14.98                     | 14.76  | 14.91 | 15.50               |
| GPRS 2 Tx slots | 21.64                     | 21.74 | 21.49  | 22.50               | 15.64                     | 15.74  | 15.49 | 16.50               |
| GPRS 3 Tx slots | 19.68                     | 19.75 | 19.71  | 20.50               | 15.42                     | 15.49  | 15.45 | 16.24               |
| GPRS 4 Tx slots | 18.40                     | 18.28 | 18.58  | 19.00               | 15.40                     | 15.28  | 15.58 | 16.00               |
| EDGE 1 Tx slot  | 23.96                     | 24.01 | 23.91  | 24.50               | 14.96                     | 15.01  | 14.91 | 15.50               |
| EDGE 2 Tx slots | 22.36                     | 22.25 | 22.17  | 22.50               | 16.36                     | 16.25  | 16.17 | 16.50               |
| EDGE 3 Tx slots | 19.97                     | 20.12 | 19.84  | 20.50               | 15.71                     | 15.86  | 15.58 | 16.24               |
| EDGE 4 Tx slots | 18.82                     | 18.84 | 18.68  | 19.00               | 15.82                     | 15.84  | 15.68 | 16.00               |

WCDMA II Ant 2 DSIt

WCDMA IV Ant 2 DSIt

WCDMA V Ant 2 DSIt

| Band            |                    | WCDMA II |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) | WCDMA V |       |       | Tune-up Limit (dBm) |
|-----------------|--------------------|----------|-------|--------|---------------------|----------|--------|--------|---------------------|---------|-------|-------|---------------------|
| TX Channel      |                    | 9262     | 9400  | 9538   |                     | 1312     | 1413   | 1513   |                     | 4132    | 4182  | 4233  |                     |
| Rx Channel      |                    | 9662     | 9800  | 9938   |                     | 1537     | 1638   | 1738   |                     | 4357    | 4407  | 4458  |                     |
| Frequency (MHz) |                    | 1852.4   | 1880  | 1907.6 |                     | 1712.4   | 1732.6 | 1752.6 |                     | 826.4   | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 15.80    | 15.84 | 15.82  | 16.50               | 15.75    | 15.78  | 15.67  | 16.50               | 23.54   | 23.56 | 23.49 | 24.50               |
| 3GPP Rel 99     | AMR 12.2Kbps       | 15.82    | 15.87 | 15.84  | 16.50               | 15.76    | 15.80  | 15.71  | 16.50               | 23.55   | 23.69 | 23.50 | 24.50               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 13.84    | 13.86 | 13.80  | 14.50               | 13.80    | 13.85  | 13.78  | 14.50               | 23.53   | 23.57 | 23.45 | 24.50               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 13.73    | 13.76 | 13.77  | 14.50               | 13.78    | 13.77  | 13.68  | 14.50               | 23.44   | 23.30 | 23.35 | 24.50               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 13.18    | 13.28 | 13.22  | 14.50               | 13.42    | 13.22  | 13.20  | 14.50               | 23.08   | 22.86 | 22.92 | 24.00               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 13.16    | 13.31 | 13.27  | 14.50               | 13.33    | 13.24  | 13.06  | 14.50               | 23.08   | 22.95 | 22.90 | 24.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 13.85    | 13.89 | 14.02  | 14.50               | 13.97    | 13.85  | 13.70  | 14.50               | 23.09   | 23.20 | 23.25 | 24.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 13.75    | 13.73 | 13.82  | 14.50               | 13.76    | 13.85  | 13.78  | 14.50               | 23.08   | 23.16 | 23.00 | 24.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 13.10    | 13.27 | 13.26  | 14.00               | 13.44    | 13.29  | 13.24  | 14.00               | 22.99   | 22.95 | 22.83 | 24.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 13.07    | 13.29 | 13.17  | 14.00               | 13.44    | 13.31  | 13.04  | 14.00               | 23.01   | 23.00 | 23.07 | 24.00               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 13.81    | 13.91 | 13.72  | 14.50               | 13.79    | 13.85  | 13.68  | 14.50               | 21.56   | 21.36 | 21.55 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 11.94    | 11.97 | 11.92  | 12.50               | 11.92    | 11.98  | 11.83  | 12.50               | 21.45   | 21.36 | 21.29 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 12.78    | 12.93 | 12.89  | 14.50               | 12.75    | 13.00  | 12.95  | 14.50               | 22.45   | 22.38 | 22.53 | 24.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 11.77    | 11.94 | 11.80  | 12.50               | 11.76    | 11.98  | 11.85  | 12.50               | 20.97   | 20.83 | 20.96 | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 13.71    | 13.80 | 13.87  | 14.50               | 13.85    | 13.88  | 13.83  | 14.50               | 22.29   | 22.28 | 22.27 | 24.00               |













### GSM850 Ant 1 DSIZ

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| TX Channel      | 824.2                     | 836.4 | 848.8 | 33.50               | 824.2                     | 836.4 | 848.8 | 24.50               |
| Frequency (MHz) | 32.05                     | 32.09 | 32.03 | 33.50               | 23.05                     | 23.09 | 23.03 | 24.50               |
| GSM 1 Tx slot   | 32.15                     | 32.18 | 32.16 | 33.50               | 23.15                     | 23.18 | 23.16 | 24.50               |
| GPRS 2 Tx slots | 30.03                     | 30.04 | 29.99 | 31.00               | 24.03                     | 24.04 | 23.99 | 25.00               |
| GPRS 3 Tx slots | 28.33                     | 28.34 | 28.31 | 29.50               | 24.07                     | 24.08 | 24.05 | 25.24               |
| GPRS 4 Tx slots | 26.44                     | 26.46 | 26.39 | 27.50               | 23.44                     | 23.46 | 23.39 | 24.50               |
| EDGE 1 Tx slot  | 26.75                     | 27.03 | 27.08 | 28.00               | 17.75                     | 18.03 | 18.08 | 19.00               |
| EDGE 2 Tx slots | 24.21                     | 24.50 | 24.57 | 25.50               | 18.21                     | 18.50 | 18.57 | 19.50               |
| EDGE 3 Tx slots | 22.57                     | 22.81 | 22.89 | 24.00               | 18.31                     | 18.55 | 18.63 | 19.74               |
| EDGE 4 Tx slots | 21.21                     | 21.43 | 21.56 | 22.50               | 18.21                     | 18.43 | 18.56 | 19.50               |

### GSM1900 Ant 1 DSIZ

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
|                 | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| TX Channel      | 1850.2                    | 1880  | 1909.8 | 30.50               | 1850.2                    | 1880  | 1909.8 | 21.50               |
| Frequency (MHz) | 29.64                     | 29.49 | 29.59  | 30.50               | 20.64                     | 20.49 | 20.59  | 21.50               |
| GSM 1 Tx slot   | 29.63                     | 29.50 | 29.61  | 30.50               | 20.63                     | 20.50 | 20.61  | 21.50               |
| GPRS 2 Tx slots | 27.14                     | 26.99 | 27.20  | 28.00               | 21.14                     | 20.99 | 21.20  | 22.00               |
| GPRS 3 Tx slots | 25.33                     | 25.47 | 25.31  | 26.50               | 21.07                     | 21.21 | 21.05  | 22.24               |
| GPRS 4 Tx slots | 24.05                     | 23.91 | 24.13  | 25.00               | 21.05                     | 20.91 | 21.13  | 22.00               |
| EDGE 1 Tx slot  | 26.01                     | 25.87 | 25.96  | 27.00               | 17.01                     | 16.87 | 16.96  | 18.00               |
| EDGE 2 Tx slots | 23.57                     | 23.46 | 23.47  | 24.50               | 17.57                     | 17.46 | 17.47  | 18.50               |
| EDGE 3 Tx slots | 21.83                     | 21.80 | 21.81  | 23.00               | 17.57                     | 17.54 | 17.55  | 18.74               |
| EDGE 4 Tx slots | 20.45                     | 20.35 | 20.37  | 21.50               | 17.45                     | 17.35 | 17.37  | 18.50               |

### WCDMA II Ant 1 DSIZ

### WCDMA IV Ant 1 DSIZ

### WCDMA V Ant 1 DSIZ

| Band            | WCDMA II |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) | WCDMA V |       |       | Tune-up Limit (dBm) |
|-----------------|----------|-------|--------|---------------------|----------|--------|--------|---------------------|---------|-------|-------|---------------------|
|                 | 9262     | 9400  | 9538   |                     | 1312     | 1413   | 1513   |                     | 4132    | 4182  | 4233  |                     |
| TX Channel      | 9662     | 9800  | 9938   | 1537                | 1638     | 1738   | 1738   | 826.4               | 836.4   | 846.6 | 846.6 | 25.50               |
| Rx Channel      | 1852.4   | 1880  | 1907.6 | 1712.4              | 1732.6   | 1752.6 | 1752.6 | 24.33               | 24.43   | 24.53 | 24.53 | 25.50               |
| Frequency (MHz) | 24.16    | 24.13 | 24.06  | 24.14               | 24.17    | 24.03  | 25.50  | 24.33               | 24.43   | 24.53 | 24.53 | 25.50               |
| 3GPP Rel 99     | 24.27    | 24.29 | 24.18  | 24.18               | 24.27    | 24.07  | 25.50  | 24.43               | 24.53   | 24.53 | 24.53 | 25.50               |
| 3GPP Rel 99     | 23.15    | 23.17 | 23.13  | 24.50               | 23.03    | 23.18  | 22.96  | 24.50               | 23.82   | 23.61 | 23.66 | 24.50               |
| 3GPP Rel 6      | 23.05    | 23.13 | 23.07  | 24.50               | 22.97    | 23.10  | 22.81  | 24.50               | 23.53   | 23.56 | 23.58 | 24.50               |
| 3GPP Rel 6      | 22.62    | 22.58 | 22.57  | 24.50               | 22.59    | 22.65  | 22.51  | 24.50               | 23.03   | 23.06 | 23.11 | 24.50               |
| 3GPP Rel 6      | 22.58    | 22.63 | 22.53  | 24.50               | 22.58    | 22.54  | 22.59  | 24.50               | 23.05   | 23.06 | 23.09 | 24.50               |
| 3GPP Rel 6      | 23.23    | 23.22 | 23.24  | 25.00               | 23.07    | 23.22  | 23.17  | 25.00               | 23.54   | 23.72 | 23.70 | 25.00               |
| 3GPP Rel 8      | 23.17    | 23.12 | 23.16  | 25.00               | 23.06    | 23.05  | 23.14  | 25.00               | 23.52   | 23.45 | 23.57 | 25.00               |
| 3GPP Rel 8      | 22.58    | 22.52 | 22.66  | 24.50               | 22.53    | 22.75  | 22.59  | 24.50               | 22.96   | 22.98 | 23.11 | 24.50               |
| 3GPP Rel 8      | 22.67    | 22.53 | 22.51  | 24.50               | 22.58    | 22.55  | 22.58  | 24.50               | 22.95   | 22.99 | 23.14 | 24.50               |
| 3GPP Rel 6      | 21.20    | 21.23 | 21.13  | 23.00               | 21.02    | 21.23  | 21.02  | 23.00               | 21.66   | 21.52 | 21.66 | 23.00               |
| 3GPP Rel 6      | 21.16    | 21.21 | 21.05  | 23.00               | 21.01    | 21.20  | 21.01  | 23.00               | 21.56   | 21.48 | 21.63 | 23.00               |
| 3GPP Rel 6      | 22.15    | 22.14 | 22.13  | 24.00               | 22.01    | 22.19  | 22.01  | 24.00               | 22.63   | 22.56 | 22.63 | 24.00               |
| 3GPP Rel 6      | 20.64    | 20.66 | 20.63  | 22.50               | 20.59    | 20.70  | 20.59  | 22.50               | 21.03   | 20.99 | 21.10 | 22.50               |
| 3GPP Rel 6      | 22.20    | 22.10 | 22.10  | 24.00               | 22.10    | 22.20  | 22.10  | 24.00               | 22.50   | 22.40 | 22.50 | 24.00               |







| Band 38 Ant1 DS12 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 37850                 | 38000                    | 38150                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 2500                  | 2505                     | 2510                   |                     |          |  |
| 20                | QPSK       | 1       | 0         | 23.80                 | 23.92                    | 23.94                  | 25.5                | 0        |  |
| 20                | QPSK       | 1       | 49        | 23.79                 | 23.68                    | 23.88                  |                     |          |  |
| 20                | QPSK       | 1       | 99        | 23.85                 | 23.75                    | 23.76                  |                     |          |  |
| 20                | QPSK       | 50      | 0         | 22.82                 | 23.61                    | 22.78                  | 24.5                | 1        |  |
| 20                | QPSK       | 50      | 24        | 22.93                 | 22.94                    | 22.92                  |                     |          |  |
| 20                | QPSK       | 50      | 50        | 22.96                 | 22.88                    | 22.88                  |                     |          |  |
| 20                | QPSK       | 100     | 0         | 22.88                 | 22.95                    | 22.82                  | 24.5                | 1        |  |
| 20                | 16QAM      | 1       | 0         | 23.13                 | 23.10                    | 23.04                  |                     |          |  |
| 20                | 16QAM      | 1       | 49        | 23.32                 | 23.28                    | 23.25                  |                     |          |  |
| 20                | 16QAM      | 1       | 99        | 23.19                 | 23.09                    | 23.10                  | 23.5                | 2        |  |
| 20                | 16QAM      | 50      | 0         | 21.96                 | 22.01                    | 21.99                  |                     |          |  |
| 20                | 16QAM      | 50      | 24        | 22.06                 | 22.11                    | 22.05                  |                     |          |  |
| 20                | 16QAM      | 50      | 50        | 22.01                 | 22.04                    | 22.01                  | 23.5                | 2        |  |
| 20                | 16QAM      | 100     | 0         | 21.95                 | 21.86                    | 21.86                  |                     |          |  |
| 20                | 64QAM      | 1       | 0         | 21.98                 | 21.98                    | 22.02                  |                     |          |  |
| 20                | 64QAM      | 1       | 49        | 22.18                 | 22.26                    | 22.10                  | 22.5                | 3        |  |
| 20                | 64QAM      | 1       | 99        | 22.04                 | 21.97                    | 21.97                  |                     |          |  |
| 20                | 64QAM      | 50      | 0         | 20.85                 | 20.93                    | 20.93                  |                     |          |  |
| 20                | 64QAM      | 50      | 24        | 21.04                 | 20.99                    | 21.06                  | 22.5                | 3        |  |
| 20                | 64QAM      | 50      | 50        | 20.97                 | 20.96                    | 20.96                  |                     |          |  |
| 20                | 64QAM      | 100     | 0         | 20.99                 | 20.99                    | 20.87                  |                     |          |  |
| Channel           |            |         |           | 37825                 | 38000                    | 38175                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |  |
| 15                | QPSK       | 1       | 0         | 23.65                 | 23.68                    | 23.61                  | 25.5                | 0        |  |
| 15                | QPSK       | 1       | 37        | 23.81                 | 23.61                    | 23.82                  |                     |          |  |
| 15                | QPSK       | 1       | 74        | 23.79                 | 23.58                    | 23.69                  |                     |          |  |
| 15                | QPSK       | 36      | 0         | 22.73                 | 22.81                    | 22.60                  | 24.5                | 1        |  |
| 15                | QPSK       | 36      | 20        | 22.87                 | 22.94                    | 22.94                  |                     |          |  |
| 15                | QPSK       | 36      | 39        | 22.85                 | 22.76                    | 22.87                  |                     |          |  |
| 15                | QPSK       | 75      | 0         | 22.71                 | 22.73                    | 22.73                  | 24.5                | 1        |  |
| 15                | 16QAM      | 1       | 0         | 22.97                 | 23.10                    | 23.02                  |                     |          |  |
| 15                | 16QAM      | 1       | 37        | 23.22                 | 23.16                    | 23.09                  |                     |          |  |
| 15                | 16QAM      | 1       | 74        | 22.99                 | 22.88                    | 23.00                  | 23.5                | 2        |  |
| 15                | 16QAM      | 36      | 0         | 21.77                 | 21.90                    | 21.78                  |                     |          |  |
| 15                | 16QAM      | 36      | 20        | 21.90                 | 22.04                    | 22.06                  |                     |          |  |
| 15                | 16QAM      | 36      | 39        | 21.82                 | 21.83                    | 22.00                  | 22.5                | 3        |  |
| 15                | 16QAM      | 75      | 0         | 21.87                 | 21.76                    | 21.79                  |                     |          |  |
| 15                | 64QAM      | 1       | 0         | 21.91                 | 21.88                    | 21.94                  |                     |          |  |
| 15                | 64QAM      | 1       | 37        | 21.99                 | 22.10                    | 21.90                  | 23.5                | 2        |  |
| 15                | 64QAM      | 1       | 74        | 21.98                 | 21.96                    | 21.97                  |                     |          |  |
| 15                | 64QAM      | 36      | 0         | 20.66                 | 20.79                    | 20.89                  |                     |          |  |
| 15                | 64QAM      | 36      | 20        | 21.05                 | 20.90                    | 20.96                  | 22.5                | 3        |  |
| 15                | 64QAM      | 36      | 39        | 20.79                 | 20.96                    | 20.79                  |                     |          |  |
| 15                | 64QAM      | 75      | 0         | 21.00                 | 20.94                    | 20.79                  |                     |          |  |
| Channel           |            |         |           | 37800                 | 38000                    | 38200                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 2572                  | 2575                     | 2576                   |                     |          |  |
| 10                | QPSK       | 1       | 0         | 23.74                 | 23.81                    | 23.83                  | 25.5                | 0        |  |
| 10                | QPSK       | 1       | 25        | 23.66                 | 23.60                    | 23.72                  |                     |          |  |
| 10                | QPSK       | 1       | 49        | 23.86                 | 23.73                    | 23.60                  |                     |          |  |
| 10                | QPSK       | 25      | 0         | 22.69                 | 22.92                    | 22.64                  | 24.5                | 1        |  |
| 10                | QPSK       | 25      | 12        | 22.89                 | 22.73                    | 22.76                  |                     |          |  |
| 10                | QPSK       | 25      | 25        | 22.77                 | 22.79                    | 22.76                  |                     |          |  |
| 10                | QPSK       | 50      | 0         | 22.74                 | 22.74                    | 22.73                  | 24.5                | 1        |  |
| 10                | 16QAM      | 1       | 0         | 22.93                 | 23.10                    | 23.04                  |                     |          |  |
| 10                | 16QAM      | 1       | 25        | 23.18                 | 23.29                    | 23.17                  |                     |          |  |
| 10                | 16QAM      | 1       | 49        | 23.06                 | 22.99                    | 22.94                  | 23.5                | 2        |  |
| 10                | 16QAM      | 25      | 0         | 21.82                 | 21.92                    | 21.97                  |                     |          |  |
| 10                | 16QAM      | 25      | 12        | 21.92                 | 22.02                    | 21.93                  |                     |          |  |
| 10                | 16QAM      | 25      | 25        | 21.88                 | 22.03                    | 21.94                  | 23.5                | 2        |  |
| 10                | 16QAM      | 50      | 0         | 21.87                 | 21.82                    | 21.85                  |                     |          |  |
| 10                | 64QAM      | 1       | 0         | 21.92                 | 21.90                    | 21.91                  |                     |          |  |
| 10                | 64QAM      | 1       | 25        | 22.04                 | 22.19                    | 22.02                  | 22.5                | 3        |  |
| 10                | 64QAM      | 1       | 49        | 21.91                 | 21.96                    | 21.96                  |                     |          |  |
| 10                | 64QAM      | 25      | 0         | 20.68                 | 20.84                    | 20.76                  |                     |          |  |
| 10                | 64QAM      | 25      | 12        | 20.86                 | 20.81                    | 21.02                  | 22.5                | 3        |  |
| 10                | 64QAM      | 25      | 25        | 20.79                 | 20.73                    | 20.90                  |                     |          |  |
| 10                | 64QAM      | 50      | 0         | 20.99                 | 21.00                    | 20.83                  |                     |          |  |
| Channel           |            |         |           | 37775                 | 38000                    | 38225                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 25722.5               | 2595                     | 2617.5                 |                     |          |  |
| 5                 | QPSK       | 1       | 0         | 23.56                 | 23.74                    | 23.57                  | 25.5                | 0        |  |
| 5                 | QPSK       | 1       | 12        | 23.57                 | 23.50                    | 23.77                  |                     |          |  |
| 5                 | QPSK       | 1       | 24        | 23.66                 | 23.60                    | 23.57                  |                     |          |  |
| 5                 | QPSK       | 12      | 0         | 22.62                 | 22.76                    | 22.58                  | 24.5                | 1        |  |
| 5                 | QPSK       | 12      | 7         | 22.66                 | 22.72                    | 22.66                  |                     |          |  |
| 5                 | QPSK       | 12      | 13        | 22.80                 | 22.70                    | 22.81                  |                     |          |  |
| 5                 | QPSK       | 25      | 0         | 22.59                 | 22.68                    | 22.72                  | 24.5                | 1        |  |
| 5                 | 16QAM      | 1       | 0         | 23.00                 | 22.81                    | 22.89                  |                     |          |  |
| 5                 | 16QAM      | 1       | 12        | 23.13                 | 23.06                    | 22.95                  |                     |          |  |
| 5                 | 16QAM      | 1       | 24        | 22.92                 | 22.88                    | 22.96                  | 23.5                | 2        |  |
| 5                 | 16QAM      | 12      | 0         | 21.65                 | 21.89                    | 21.88                  |                     |          |  |
| 5                 | 16QAM      | 12      | 7         | 21.93                 | 21.91                    | 21.86                  |                     |          |  |
| 5                 | 16QAM      | 12      | 13        | 21.78                 | 21.83                    | 21.79                  | 23.5                | 2        |  |
| 5                 | 16QAM      | 25      | 0         | 21.87                 | 21.81                    | 21.71                  |                     |          |  |
| 5                 | 64QAM      | 1       | 0         | 21.79                 | 21.80                    | 21.88                  |                     |          |  |
| 5                 | 64QAM      | 1       | 12        | 22.02                 | 22.13                    | 21.86                  | 22.5                | 3        |  |
| 5                 | 64QAM      | 1       | 24        | 21.85                 | 21.82                    | 21.74                  |                     |          |  |
| 5                 | 64QAM      | 12      | 0         | 20.65                 | 20.79                    | 20.78                  |                     |          |  |
| 5                 | 64QAM      | 12      | 7         | 20.94                 | 20.86                    | 20.87                  | 22.5                | 3        |  |
| 5                 | 64QAM      | 12      | 13        | 20.81                 | 20.94                    | 20.58                  |                     |          |  |
| 5                 | 64QAM      | 25      | 0         | 20.79                 | 20.73                    | 20.78                  |                     |          |  |

| Band 41 Ant1 DS12 |            |         |           |                       |                              |                          |                               |                        |                     |   |
|-------------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|---|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low-Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High-Middle Ch. / Freq. | Power High Ch. / Freq. |                     |   |
| Channel           |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  | Tune-up limit (dBm) |   |
| Frequency (MHz)   |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |   |
| 20                | QPSK       | 1       | 0         | 23.60                 | 23.58                        | 23.94                    | 23.65                         | 23.62                  | 25.5                | 0 |
| 20                | QPSK       | 1       | 49        | 23.85                 | 23.83                        | 23.87                    | 23.84                         | 23.68                  |                     |   |
| 20                | QPSK       | 1       | 99        | 23.57                 | 23.72                        | 23.64                    | 23.64                         | 23.63                  |                     |   |
| 20                | QPSK       | 50      | 0         | 22.71                 | 22.67                        | 22.93                    | 22.83                         | 22.79                  | 24.5                | 1 |
| 20                | QPSK       | 50      | 24        | 22.85                 | 22.90                        | 22.75                    | 22.89                         | 22.84                  |                     |   |
| 20                | QPSK       | 50      | 50        | 22.80                 | 22.79                        | 22.85                    | 22.72                         | 22.73                  |                     |   |
| 20                | QPSK       | 100     | 0         | 22.72                 | 22.72                        | 22.85                    | 22.78                         | 22.83                  | 24.5                | 2 |
| 20                | 16QAM      | 1       | 0         | 23.13                 | 22.89                        | 23.02                    | 22.98                         | 23.05                  |                     |   |
| 20                | 16QAM      | 1       | 49        | 22.96                 | 22.85                        | 22.85                    | 22.97                         | 23.14                  |                     |   |
| 20                | 16QAM      | 1       | 99        | 23.15                 | 22.94                        | 23.12                    | 23.08                         | 22.96                  | 23.5                | 1 |
| 20                | 16QAM      | 50      | 0         | 21.83                 | 21.86                        | 21.92                    | 22.00                         | 21.94                  |                     |   |
| 20                | 16QAM      | 50      | 24        | 21.93                 | 21.89                        | 21.97                    | 22.03                         | 22.06                  |                     |   |
| 20                | 16QAM      | 50      | 50        | 21.96                 | 22.00                        | 21.92                    | 21.82                         | 21.91                  | 23.5                | 2 |
| 20                | 16QAM      | 100     | 0         | 21.84                 | 21.86                        | 21.88                    | 21.93                         | 21.82                  |                     |   |
| 20                | 64QAM      | 1       | 0         | 21.96                 | 22.05                        | 22.06                    | 21.99                         | 22.03                  | 23.5                | 2 |
| 20                | 64QAM      | 1       | 49        | 22.13                 | 22.14                        | 22.25                    | 22.06                         | 22.13                  |                     |   |
| 20                | 64QAM      | 1       | 99        | 22.08                 | 22.09                        | 22.15                    | 22.11                         | 22.04                  |                     |   |
| 20                | 64QAM      | 50      | 0         | 20.77                 | 20.74                        | 20.81                    | 20.81                         | 20.94                  | 22.5                | 3 |
| 20                | 64QAM      | 50      | 24        | 20.86                 | 20.88                        | 20.98                    | 20.97                         | 20.90                  |                     |   |
| 20                | 64QAM      | 50      | 50        | 20.84                 | 20.83                        | 21.00                    | 20.85                         | 20.78                  |                     |   |
| 20                | 64QAM      | 100     | 0         | 20.79                 | 20.76                        | 20.88                    | 20.82                         | 20.89                  | Tune-up limit (dBm) |   |
| Channel           |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | MPR (dB)            |   |
| Frequency (MHz)   |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |   |
| 15                | QPSK       | 1       | 0         | 23.56                 | 23.56                        | 23.73                    | 23.56                         | 23.50                  | 25.50               | 0 |
| 15                | QPSK       | 1       | 37        | 23.67                 | 23.71                        | 23.72                    | 23.62                         | 23.59                  |                     |   |
| 15                | QPSK       | 1       | 74        | 23.59                 | 23.58                        | 23.64                    | 23.54                         | 23.56                  |                     |   |
| 15                | QPSK       | 36      | 0         | 22.64                 | 22.62                        | 22.90                    | 22.83                         | 22.58                  | 24.5                | 1 |
| 15                | QPSK       | 36      | 20        | 22.84                 | 22.83                        | 22.63                    | 22.72                         | 22.62                  |                     |   |
| 15                | QPSK       | 36      | 39        | 22.61                 | 22.75                        | 22.75                    | 22.69                         | 22.56                  |                     |   |
| 15                | QPSK       | 75      | 0         | 22.60                 | 22.68                        | 22.80                    | 22.71                         | 22.75                  | 24.5                | 1 |
| 15                | 16QAM      | 1       | 0         | 23.01                 | 22.82                        | 22.98                    | 22.99                         | 22.98                  |                     |   |
| 15                | 16QAM      | 1       | 37        | 22.92                 | 22.76                        | 22.87                    | 22.87                         | 23.15                  |                     |   |
| 15                | 16QAM      | 1       | 74        | 23.04                 | 22.76                        | 22.97                    | 22.99                         | 22.96                  | 23.5                | 2 |
| 15                | 16QAM      | 36      | 0         | 21.71                 | 21.77                        | 21.90                    | 21.91                         | 21.81                  |                     |   |
| 15                | 16QAM      | 36      | 20        | 21.81                 | 21.96                        | 21.78                    | 22.00                         | 21.96                  |                     |   |
| 15                | 16QAM      | 36      | 39        | 21.82                 | 21.79                        | 21.79                    | 21.79                         | 21.71                  | 23.5                | 2 |
| 15                | 16QAM      | 75      | 0         | 21.75                 | 21.69                        | 21.75                    | 21.86                         | 21.82                  |                     |   |
| 15                | 64QAM      | 1       | 0         | 21.80                 | 21.98                        | 21.94                    | 21.99                         | 21.90                  | 23.5                | 2 |
| 15                | 64QAM      | 1       | 37        | 21.84                 | 22.16                        | 22.09                    | 21.99                         | 22.12                  |                     |   |
| 15                | 64QAM      | 1       | 74        | 21.89                 | 21.98                        | 22.18                    | 22.12                         | 21.88                  |                     |   |
| 15                | 64QAM      | 36      | 0         | 20.61                 | 20.87                        | 20.70                    | 20.79                         | 20.84                  | 22.5                | 3 |
| 15                | 64QAM      | 36      | 20        | 20.73                 | 20.80                        | 20.87                    | 20.86                         | 20.79                  |                     |   |
| 15                | 64QAM      | 36      | 39        | 20.72                 | 20.61                        | 20.81                    | 20.70                         | 20.80                  |                     |   |
| 15                | 64QAM      | 75      | 0         | 20.70                 | 20.61                        | 20.66                    | 20.76                         | 20.75                  | Tune-up limit (dBm) |   |
| Channel           |            |         |           | 39700                 | 40160                        | 40620                    | 41080                         | 41640                  | MPR (dB)            |   |
| Frequency (MHz)   |            |         |           | 2501                  | 2547                         | 2593                     | 2639                          | 2685                   |                     |   |
| 10                | QPSK       | 1       | 0         | 23.53                 | 23.57                        | 23.69                    | 23.59                         | 23.55                  | 25.50               | 0 |
| 10                | QPSK       | 1       | 25        | 23.59                 | 23.67                        | 23.69                    | 23.71                         | 23.64                  |                     |   |
| 10                | QPSK       | 1       | 49        | 23.51                 | 23.56                        | 23.53                    | 23.69                         | 23.50                  |                     |   |
| 10                | QPSK       | 25      | 0         | 22.53                 | 22.56                        | 22.85                    | 22.77                         | 22.57                  | 24.5                | 1 |
| 10                | QPSK       | 25      | 12        | 22.52                 | 22.72                        | 22.83                    | 22.73                         | 22.59                  |                     |   |
| 10                | QPSK       | 25      | 25        | 22.77                 | 22.61                        | 22.63                    | 22.56                         | 22.51                  |                     |   |
| 10                | QPSK       | 50      | 0         | 22.61                 | 22.68                        | 22.71                    | 22.64                         | 22.58                  | 24.5                | 1 |
| 10                | 16QAM      | 1       | 0         | 22.90                 | 22.83                        | 22.77                    | 22.90                         | 22.94                  |                     |   |
| 10                | 16QAM      | 1       | 25        | 22.74                 | 22.70                        | 22.89                    | 22.82                         | 22.90                  |                     |   |
| 10                | 16QAM      | 1       | 49        | 23.07                 | 22.76                        | 22.94                    | 22.93                         | 22.86                  | 23.5                | 2 |
| 10                | 16QAM      | 25      | 0         | 21.76                 | 21.66                        | 21.66                    | 21.89                         | 21.75                  |                     |   |
| 10                | 16QAM      | 25      | 12        | 21.85                 | 21.88                        | 21.82                    | 21.97                         | 22.00                  |                     |   |
| 10                | 16QAM      | 25      | 25        | 21.76                 | 21.83                        | 21.68                    | 21.69                         | 21.77                  | 23.5                | 2 |
| 10                | 16QAM      | 50      | 0         | 21.74                 | 21.81                        | 21.68                    | 21.68                         | 21.57                  |                     |   |
| 10                | 64QAM      | 1       | 0         | 21.79                 | 21.83                        | 21.92                    | 21.85                         | 21.77                  | 23.5                | 2 |
| 10                | 64QAM      | 1       | 25        | 21.97                 | 21.90                        | 22.11                    | 21.89                         | 22.07                  |                     |   |
| 10                | 64QAM      | 1       | 49        | 21.83                 | 22.04                        | 22.03                    | 21.87                         | 21.97                  |                     |   |
| 10                | 64QAM      | 25      | 0         | 20.57                 | 20.63                        | 20.75                    | 20.78                         | 20.85                  | 22.5                | 3 |
| 10                | 64QAM      | 25      | 12        | 20.77                 | 20.66                        | 20.50                    | 20.76                         | 20.68                  |                     |   |
| 10                | 64QAM      | 25      | 25        | 20.80                 | 20.59                        | 20.74                    | 20.73                         | 20.85                  |                     |   |
| 10                | 64QAM      | 50      | 0         | 20.64                 | 20.60                        | 20.74                    | 20.63                         | 20.21                  | Tune-up limit (dBm) |   |
| Channel           |            |         |           | 39675                 | 40148                        | 40620                    | 41093                         | 41655                  | MPR (dB)            |   |
| Frequency (MHz)   |            |         |           | 2498.5                | 2545.8                       | 2590.5                   | 2637.5                        | 2683.5                 |                     |   |
| 5                 | QPSK       | 1       | 0         | 23.53                 | 23.53                        | 23.53                    | 23.51                         | 23.53                  | 25.50               | 0 |
| 5                 | QPSK       | 1       | 12        | 23.56                 | 23.62                        | 23.55                    | 23.59                         | 23.59                  |                     |   |
| 5                 | QPSK       | 1       | 24        | 23.63                 | 23.50                        | 23.57                    | 23.51                         | 23.59                  |                     |   |
| 5                 | QPSK       | 12      | 0         | 22.62                 | 22.55                        | 22.74                    | 22.59                         | 22.68                  | 24.5                | 1 |
| 5                 | QPSK       | 12      | 12        | 22.74                 | 22.74                        | 22.86                    | 22.82                         | 22.76                  |                     |   |
| 5                 | QPSK       | 12      | 13        | 22.52                 | 22.54                        | 22.80                    | 22.59                         | 22.65                  |                     |   |
| 5                 | QPSK       | 25      | 0         | 22.62                 | 22.52                        | 22.57                    | 22.68                         | 22.52                  | 24.5                | 1 |
| 5                 | 16QAM      | 1       | 0         | 23.03                 | 22.76                        | 22.82                    | 22.90                         | 22.92                  |                     |   |
| 5                 | 16QAM      | 1       | 12        | 22.70                 | 22.70                        | 22.89                    | 22.97                         | 23.06                  |                     |   |
| 5                 | 16QAM      | 1       | 24        | 22.95                 | 22.72                        | 22.89                    | 22.93                         | 22.87                  | 23.5                | 2 |
| 5                 | 16QAM      | 12      | 0         | 21.65                 | 21.68                        | 21.61                    | 21.74                         | 21.65                  |                     |   |
| 5                 | 16QAM      | 12      | 12        | 21.62                 | 21.73                        | 21.68                    | 21.65                         | 21.79                  |                     |   |
| 5                 | 16QAM      | 12      | 13        | 21.75                 | 21.91                        | 21.67                    | 21.62                         | 21.75                  | 23.5                | 2 |
| 5                 | 64QAM      | 1       | 0         | 21.74                 | 21.69                        | 21.72                    | 21.81                         | 21.56                  |                     |   |
| 5                 | 64QAM      | 1       | 0         | 21.67                 | 21.94                        | 21.68                    | 21.79                         | 21.89                  |                     |   |
| 5                 | 64QAM      | 1       | 12        | 21.96                 | 22.00                        | 21.90                    | 21.90                         | 21.96                  | 23.5                | 2 |
| 5                 | 64QAM      | 1       | 24        | 21.95                 | 21.79                        | 21.87                    | 21.84                         | 21.92                  |                     |   |
| 5                 | 64QAM      | 12      | 0         | 20.62                 | 20.64                        | 20.56                    | 20.56                         | 20.75                  |                     |   |
| 5                 | 64QAM      | 12      | 0         | 20.67                 | 20.70                        | 20.62                    | 20.79                         | 20.67                  | 22.5                | 3 |
| 5                 | 64QAM      | 12      | 13        | 20.69                 | 20.60                        | 20.72                    | 20.67                         | 20.58                  |                     |   |
| 5                 | 64QAM      | 25      | 0         | 20.53                 | 20.64                        | 20.58                    | 20.72                         | 20.77                  |                     |   |

GSM850 Ant 2 DSIZ

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | TX Channel                | 128   | 189   | 251                 | 128                       | 189   | 251   |                     |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   | 32.26                     | 32.33 | 32.21 | 33.50               | 23.26                     | 23.33 | 23.21 | 24.50               |
| GPRS 1 Tx slot  | 32.34                     | 32.38 | 32.29 | 33.50               | 23.34                     | 23.38 | 23.29 | 24.50               |
| GPRS 2 Tx slots | 30.17                     | 30.11 | 30.02 | 31.00               | 24.17                     | 24.11 | 24.02 | 25.00               |
| GPRS 3 Tx slots | 28.40                     | 28.43 | 28.30 | 29.50               | 24.14                     | 24.17 | 24.04 | 25.24               |
| GPRS 4 Tx slots | 26.46                     | 26.44 | 26.33 | 27.50               | 23.46                     | 23.44 | 23.33 | 24.50               |
| EDGE 1 Tx slot  | 27.06                     | 27.30 | 27.39 | 28.00               | 18.06                     | 18.30 | 18.39 | 19.00               |
| EDGE 2 Tx slots | 24.55                     | 24.78 | 24.88 | 25.50               | 18.55                     | 18.78 | 18.88 | 19.50               |
| EDGE 3 Tx slots | 22.84                     | 23.03 | 23.19 | 24.00               | 18.58                     | 18.77 | 18.93 | 19.74               |
| EDGE 4 Tx slots | 21.56                     | 21.73 | 21.93 | 22.50               | 18.56                     | 18.73 | 18.93 | 19.50               |

GSM1900 Ant 2 DSIZ

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
|                 | TX Channel                | 512   | 661    | 810                 | 512                       | 661   | 810    |                     |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot   | 29.53                     | 29.45 | 29.36  | 30.50               | 20.53                     | 20.45 | 20.36  | 21.50               |
| GPRS 1 Tx slot  | 29.69                     | 29.51 | 29.50  | 30.50               | 20.69                     | 20.51 | 20.50  | 21.50               |
| GPRS 2 Tx slots | 27.27                     | 27.00 | 26.95  | 28.00               | 21.27                     | 21.00 | 20.95  | 22.00               |
| GPRS 3 Tx slots | 25.74                     | 25.82 | 25.68  | 26.50               | 21.48                     | 21.56 | 21.42  | 22.24               |
| GPRS 4 Tx slots | 24.18                     | 23.95 | 24.08  | 25.00               | 21.18                     | 20.95 | 21.08  | 22.00               |
| EDGE 1 Tx slot  | 26.52                     | 26.29 | 26.33  | 27.00               | 17.52                     | 17.29 | 17.33  | 18.00               |
| EDGE 2 Tx slots | 23.92                     | 23.62 | 23.81  | 24.50               | 17.92                     | 17.62 | 17.81  | 18.50               |
| EDGE 3 Tx slots | 22.16                     | 21.91 | 22.17  | 23.00               | 17.90                     | 17.65 | 17.91  | 18.74               |
| EDGE 4 Tx slots | 20.58                     | 20.46 | 20.53  | 21.50               | 17.58                     | 17.46 | 17.53  | 18.50               |

WCDMA II Ant 2 DSIZ

WCDMA IV Ant 2 DSIZ

WCDMA V Ant 2 DSIZ

| Band                          | WCDMA II   |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) | WCDMA V |       |       | Tune-up Limit (dBm) |
|-------------------------------|------------|-------|--------|---------------------|----------|--------|--------|---------------------|---------|-------|-------|---------------------|
|                               | TX Channel | 9262  | 9400   | 9538                | 1312     | 1413   | 1513   |                     | 4132    | 4182  | 4233  |                     |
| Rx Channel                    | 9662       | 9800  | 9938   |                     | 1537     | 1638   | 1738   |                     | 4357    | 4407  | 4458  |                     |
| Frequency (MHz)               | 1852.4     | 1880  | 1907.6 |                     | 1712.4   | 1732.6 | 1752.6 |                     | 826.4   | 836.4 | 846.6 |                     |
| 3GPP Rel 99 AMR 12.2Kbps      | 22.57      | 22.62 | 22.59  | 23.50               | 22.94    | 23.19  | 22.87  | 24.00               | 24.44   | 24.50 | 24.46 | 25.50               |
| 3GPP Rel 99 RMC 12.2Kbps      | 22.69      | 22.72 | 22.61  | 23.50               | 23.17    | 23.20  | 23.11  | 24.00               | 24.56   | 24.59 | 24.53 | 25.50               |
| 3GPP Rel 6 HSDPA Subtest-1    | 21.66      | 21.68 | 21.71  | 22.50               | 22.02    | 22.24  | 22.08  | 23.00               | 23.58   | 23.49 | 23.58 | 24.50               |
| 3GPP Rel 6 HSDPA Subtest-2    | 21.64      | 21.56 | 21.66  | 22.50               | 21.82    | 22.05  | 21.96  | 23.00               | 23.49   | 23.38 | 23.42 | 24.50               |
| 3GPP Rel 6 HSDPA Subtest-3    | 21.10      | 21.01 | 21.16  | 22.50               | 21.35    | 21.58  | 21.30  | 23.00               | 23.01   | 22.90 | 22.94 | 24.50               |
| 3GPP Rel 6 HSDPA Subtest-4    | 21.16      | 21.12 | 21.00  | 22.50               | 21.52    | 21.56  | 21.23  | 23.00               | 23.03   | 22.90 | 22.92 | 24.50               |
| 3GPP Rel 6 DC-HSDPA Subtest-1 | 21.48      | 21.59 | 21.65  | 23.00               | 21.95    | 22.30  | 21.87  | 23.50               | 23.45   | 23.53 | 23.69 | 25.00               |
| 3GPP Rel 6 DC-HSDPA Subtest-2 | 21.62      | 21.64 | 21.62  | 23.00               | 21.89    | 21.98  | 22.08  | 23.50               | 23.51   | 23.49 | 23.32 | 25.00               |
| 3GPP Rel 6 DC-HSDPA Subtest-3 | 21.02      | 21.02 | 20.91  | 22.50               | 21.50    | 21.55  | 21.25  | 23.00               | 22.97   | 22.97 | 22.85 | 24.50               |
| 3GPP Rel 6 DC-HSDPA Subtest-4 | 21.06      | 21.21 | 20.94  | 22.50               | 21.29    | 21.68  | 21.44  | 23.00               | 22.91   | 23.00 | 23.01 | 24.50               |
| 3GPP Rel 6 HSUPA Subtest-1    | 19.67      | 19.78 | 19.58  | 21.00               | 19.88    | 20.25  | 19.98  | 21.50               | 21.52   | 21.43 | 21.49 | 23.00               |
| 3GPP Rel 6 HSUPA Subtest-2    | 19.68      | 19.64 | 19.71  | 21.00               | 19.93    | 20.18  | 20.07  | 21.50               | 21.49   | 21.43 | 21.40 | 23.00               |
| 3GPP Rel 6 HSUPA Subtest-3    | 20.67      | 20.69 | 20.74  | 22.00               | 20.95    | 21.34  | 20.98  | 22.50               | 22.52   | 22.38 | 22.48 | 24.00               |
| 3GPP Rel 6 HSUPA Subtest-4    | 19.20      | 19.27 | 19.31  | 20.50               | 19.58    | 19.77  | 19.32  | 21.00               | 20.97   | 20.90 | 20.95 | 22.50               |
| 3GPP Rel 6 HSUPA Subtest-5    | 20.79      | 20.60 | 20.71  | 22.00               | 21.00    | 21.08  | 20.97  | 22.50               | 22.37   | 22.37 | 22.37 | 24.00               |









| Band 2 Ant4 DSI2 |            |         |           |                       |                          |                        |                     |          |  |  |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW (MHz)         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel          |            |         |           | 16700                 | 16900                    | 19100                  |                     |          |  |  |
| Frequency (MHz)  |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |  |  |
| 20               | QPSK       | 1       | 0         | 24.48                 | 24.67                    | 24.51                  | 25.5                | 0        |  |  |
| 20               | QPSK       | 1       | 49        | 24.31                 | 24.47                    | 24.44                  |                     |          |  |  |
| 20               | QPSK       | 1       | 99        | 24.38                 | 24.59                    | 24.37                  |                     |          |  |  |
| 20               | QPSK       | 50      | 0         | 23.59                 | 23.70                    | 23.50                  | 24.5                | 1        |  |  |
| 20               | QPSK       | 50      | 24        | 23.47                 | 23.55                    | 23.56                  |                     |          |  |  |
| 20               | QPSK       | 50      | 50        | 23.29                 | 23.35                    | 23.40                  |                     |          |  |  |
| 20               | QPSK       | 100     | 0         | 23.45                 | 23.62                    | 23.42                  | 24.5                | 1        |  |  |
| 20               | 16QAM      | 1       | 0         | 23.39                 | 23.65                    | 23.48                  |                     |          |  |  |
| 20               | 16QAM      | 1       | 49        | 23.26                 | 23.50                    | 23.46                  |                     |          |  |  |
| 20               | 16QAM      | 1       | 99        | 23.33                 | 23.59                    | 23.36                  | 23.5                | 2        |  |  |
| 20               | 16QAM      | 50      | 0         | 22.53                 | 22.52                    | 22.41                  |                     |          |  |  |
| 20               | 16QAM      | 50      | 24        | 22.33                 | 22.57                    | 22.47                  |                     |          |  |  |
| 20               | 16QAM      | 50      | 50        | 22.28                 | 22.54                    | 22.41                  | 23.5                | 2        |  |  |
| 20               | 16QAM      | 100     | 0         | 22.43                 | 22.66                    | 22.33                  |                     |          |  |  |
| 20               | 64QAM      | 1       | 0         | 22.56                 | 22.65                    | 22.40                  |                     |          |  |  |
| 20               | 64QAM      | 1       | 49        | 22.47                 | 22.74                    | 22.44                  | 23.5                | 2        |  |  |
| 20               | 64QAM      | 1       | 99        | 22.28                 | 22.39                    | 22.52                  |                     |          |  |  |
| 20               | 64QAM      | 50      | 0         | 21.51                 | 21.56                    | 21.41                  |                     |          |  |  |
| 20               | 64QAM      | 50      | 24        | 21.50                 | 21.77                    | 21.51                  | 22.5                | 3        |  |  |
| 20               | 64QAM      | 50      | 50        | 21.46                 | 21.67                    | 21.47                  |                     |          |  |  |
| 20               | 64QAM      | 100     | 0         | 21.19                 | 21.50                    | 21.57                  |                     |          |  |  |
| Channel          |            |         |           | 18675                 | 18900                    | 19125                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)  |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |          |  |  |
| 15               | QPSK       | 1       | 0         | 24.34                 | 24.49                    | 24.40                  | 25.5                | 0        |  |  |
| 15               | QPSK       | 1       | 37        | 24.32                 | 24.46                    | 24.39                  |                     |          |  |  |
| 15               | QPSK       | 1       | 74        | 24.21                 | 24.57                    | 24.34                  |                     |          |  |  |
| 15               | QPSK       | 36      | 0         | 23.51                 | 23.49                    | 23.45                  | 24.5                | 1        |  |  |
| 15               | QPSK       | 36      | 20        | 23.40                 | 23.52                    | 23.37                  |                     |          |  |  |
| 15               | QPSK       | 36      | 39        | 23.23                 | 23.14                    | 23.38                  |                     |          |  |  |
| 15               | QPSK       | 75      | 0         | 23.45                 | 23.47                    | 23.37                  | 24.5                | 1        |  |  |
| 15               | 16QAM      | 1       | 0         | 23.18                 | 23.47                    | 23.44                  |                     |          |  |  |
| 15               | 16QAM      | 1       | 37        | 23.09                 | 23.44                    | 23.40                  |                     |          |  |  |
| 15               | 16QAM      | 1       | 74        | 23.30                 | 23.55                    | 23.23                  | 23.5                | 2        |  |  |
| 15               | 16QAM      | 36      | 0         | 22.38                 | 22.42                    | 22.33                  |                     |          |  |  |
| 15               | 16QAM      | 36      | 20        | 22.20                 | 22.39                    | 22.26                  |                     |          |  |  |
| 15               | 16QAM      | 36      | 39        | 22.10                 | 22.33                    | 22.36                  | 23.5                | 2        |  |  |
| 15               | 16QAM      | 75      | 0         | 22.34                 | 22.60                    | 22.23                  |                     |          |  |  |
| 15               | 64QAM      | 1       | 0         | 22.38                 | 22.44                    | 22.33                  |                     |          |  |  |
| 15               | 64QAM      | 1       | 37        | 22.31                 | 22.53                    | 22.25                  | 23.5                | 2        |  |  |
| 15               | 64QAM      | 1       | 74        | 22.06                 | 22.40                    | 22.38                  |                     |          |  |  |
| 15               | 64QAM      | 36      | 0         | 21.34                 | 21.47                    | 21.24                  |                     |          |  |  |
| 15               | 64QAM      | 36      | 20        | 21.39                 | 21.59                    | 21.34                  | 22.5                | 3        |  |  |
| 15               | 64QAM      | 36      | 39        | 21.39                 | 21.58                    | 21.29                  |                     |          |  |  |
| 15               | 64QAM      | 75      | 0         | 21.08                 | 21.35                    | 21.48                  |                     |          |  |  |
| Channel          |            |         |           | 18650                 | 18900                    | 19150                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)  |            |         |           | 1855                  | 1880                     | 1905                   |                     |          |  |  |
| 10               | QPSK       | 1       | 0         | 24.41                 | 24.47                    | 24.38                  | 25.5                | 0        |  |  |
| 10               | QPSK       | 1       | 25        | 24.30                 | 24.35                    | 24.39                  |                     |          |  |  |
| 10               | QPSK       | 1       | 49        | 24.37                 | 24.42                    | 24.27                  |                     |          |  |  |
| 10               | QPSK       | 25      | 0         | 23.55                 | 23.69                    | 23.45                  | 24.5                | 1        |  |  |
| 10               | QPSK       | 25      | 12        | 23.28                 | 23.55                    | 23.44                  |                     |          |  |  |
| 10               | QPSK       | 25      | 25        | 23.19                 | 23.32                    | 23.33                  |                     |          |  |  |
| 10               | QPSK       | 50      | 0         | 23.32                 | 23.50                    | 23.33                  | 24.5                | 1        |  |  |
| 10               | 16QAM      | 1       | 0         | 23.40                 | 23.61                    | 23.49                  |                     |          |  |  |
| 10               | 16QAM      | 1       | 25        | 23.24                 | 23.49                    | 23.26                  |                     |          |  |  |
| 10               | 16QAM      | 1       | 49        | 23.13                 | 23.56                    | 23.16                  | 23.5                | 2        |  |  |
| 10               | 16QAM      | 25      | 0         | 22.38                 | 22.31                    | 22.37                  |                     |          |  |  |
| 10               | 16QAM      | 25      | 12        | 22.16                 | 22.36                    | 22.48                  |                     |          |  |  |
| 10               | 16QAM      | 25      | 25        | 22.26                 | 22.33                    | 22.36                  | 23.5                | 2        |  |  |
| 10               | 16QAM      | 50      | 0         | 22.32                 | 22.65                    | 22.34                  |                     |          |  |  |
| 10               | 64QAM      | 1       | 0         | 22.58                 | 22.45                    | 22.26                  |                     |          |  |  |
| 10               | 64QAM      | 1       | 25        | 22.38                 | 22.56                    | 22.36                  | 23.5                | 2        |  |  |
| 10               | 64QAM      | 1       | 49        | 22.11                 | 22.37                    | 22.32                  |                     |          |  |  |
| 10               | 64QAM      | 25      | 0         | 21.42                 | 21.50                    | 21.39                  |                     |          |  |  |
| 10               | 64QAM      | 25      | 12        | 21.51                 | 21.75                    | 21.47                  | 22.5                | 3        |  |  |
| 10               | 64QAM      | 25      | 25        | 21.35                 | 21.47                    | 21.40                  |                     |          |  |  |
| 10               | 64QAM      | 50      | 0         | 21.11                 | 21.35                    | 21.57                  |                     |          |  |  |
| Channel          |            |         |           | 18625                 | 18900                    | 19175                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)  |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |          |  |  |
| 5                | QPSK       | 1       | 0         | 24.37                 | 24.52                    | 24.43                  | 25.5                | 0        |  |  |
| 5                | QPSK       | 1       | 12        | 24.16                 | 24.42                    | 24.33                  |                     |          |  |  |
| 5                | QPSK       | 1       | 24        | 24.31                 | 24.60                    | 24.15                  |                     |          |  |  |
| 5                | QPSK       | 12      | 0         | 23.41                 | 23.62                    | 23.43                  | 24.5                | 1        |  |  |
| 5                | QPSK       | 12      | 7         | 23.35                 | 23.55                    | 23.48                  |                     |          |  |  |
| 5                | QPSK       | 12      | 13        | 23.16                 | 23.13                    | 23.23                  |                     |          |  |  |
| 5                | QPSK       | 25      | 0         | 23.44                 | 23.43                    | 23.23                  | 24.5                | 1        |  |  |
| 5                | 16QAM      | 1       | 0         | 23.21                 | 23.53                    | 23.32                  |                     |          |  |  |
| 5                | 16QAM      | 1       | 12        | 23.08                 | 23.37                    | 23.26                  |                     |          |  |  |
| 5                | 16QAM      | 1       | 24        | 23.24                 | 23.45                    | 23.31                  | 23.5                | 2        |  |  |
| 5                | 16QAM      | 12      | 0         | 22.52                 | 22.46                    | 22.28                  |                     |          |  |  |
| 5                | 16QAM      | 12      | 7         | 22.29                 | 22.54                    | 22.41                  |                     |          |  |  |
| 5                | 16QAM      | 12      | 13        | 22.18                 | 22.32                    | 22.42                  | 23.5                | 2        |  |  |
| 5                | 16QAM      | 25      | 0         | 22.22                 | 22.55                    | 22.24                  |                     |          |  |  |
| 5                | 64QAM      | 1       | 0         | 22.46                 | 22.57                    | 22.23                  |                     |          |  |  |
| 5                | 64QAM      | 1       | 12        | 22.42                 | 22.70                    | 22.22                  | 23.5                | 2        |  |  |
| 5                | 64QAM      | 1       | 24        | 22.23                 | 22.36                    | 22.31                  |                     |          |  |  |
| 5                | 64QAM      | 12      | 0         | 21.36                 | 21.44                    | 21.33                  |                     |          |  |  |
| 5                | 64QAM      | 12      | 7         | 21.45                 | 21.63                    | 21.35                  | 22.5                | 3        |  |  |
| 5                | 64QAM      | 12      | 13        | 21.36                 | 21.54                    | 21.34                  |                     |          |  |  |
| 5                | 64QAM      | 25      | 0         | 21.18                 | 21.30                    | 21.44                  |                     |          |  |  |
| Channel          |            |         |           | 18615                 | 18900                    | 19185                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)  |            |         |           | 1851.5                | 1880                     | 1908.5                 |                     |          |  |  |
| 3                | QPSK       | 1       | 0         | 24.36                 | 24.62                    | 24.46                  | 25.5                | 0        |  |  |
| 3                | QPSK       | 1       | 8         | 24.13                 | 24.44                    | 24.34                  |                     |          |  |  |
| 3                | QPSK       | 1       | 14        | 24.35                 | 24.45                    | 24.25                  |                     |          |  |  |
| 3                | QPSK       | 8       | 0         | 23.51                 | 23.49                    | 23.35                  | 24.5                | 1        |  |  |
| 3                | QPSK       | 8       | 4         | 23.43                 | 23.36                    | 23.46                  |                     |          |  |  |
| 3                | QPSK       | 8       | 7         | 23.10                 | 23.28                    | 23.21                  |                     |          |  |  |
| 3                | QPSK       | 15      | 0         | 23.45                 | 23.55                    | 23.29                  | 24.5                | 1        |  |  |
| 3                | 16QAM      | 1       | 0         | 23.40                 | 23.51                    | 23.30                  |                     |          |  |  |
| 3                | 16QAM      | 1       | 8         | 23.21                 | 23.43                    | 23.35                  |                     |          |  |  |
| 3                | 16QAM      | 1       | 14        | 23.34                 | 23.58                    | 23.34                  | 23.5                | 2        |  |  |
| 3                | 16QAM      | 8       | 0         | 22.51                 | 22.35                    | 22.25                  |                     |          |  |  |
| 3                | 16QAM      | 8       | 4         | 22.20                 | 22.56                    | 22.39                  |                     |          |  |  |
| 3                | 16QAM      | 8       | 7         | 22.21                 | 22.47                    | 22.40                  | 23.5                | 2        |  |  |
| 3                | 16QAM      | 15      | 0         | 22.32                 | 22.57                    | 22.34                  |                     |          |  |  |
| 3                | 64QAM      | 1       | 0         | 22.56                 | 22.66                    | 22.34                  |                     |          |  |  |
| 3                | 64QAM      | 1       | 8         | 22.47                 | 22.66                    | 22.30                  | 23.5                | 2        |  |  |
| 3                | 64QAM      | 1       | 14        | 22.22                 | 22.28                    | 22.52                  |                     |          |  |  |
| 3                | 64QAM      | 8       | 0         | 21.33                 | 21.51                    | 21.40                  |                     |          |  |  |
| 3                | 64QAM      | 8       | 4         | 21.50                 | 21.56                    | 21.30                  | 22.5                | 3        |  |  |
| 3                | 64QAM      | 8       | 7         | 21.33                 | 21.67                    | 21.32                  |                     |          |  |  |
| 3                | 64QAM      | 15      | 0         | 21.14                 | 21.34                    | 21.56                  |                     |          |  |  |
| Channel          |            |         |           | 18607                 | 18900                    | 19193                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)  |            |         |           | 1860.7                | 1880                     | 1909.3                 |                     |          |  |  |
| 1.4              | QPSK       | 1       | 0         | 24.24                 | 24.47                    | 24.34                  | 25.5                | 0        |  |  |
| 1.4              | QPSK       | 1       | 49        | 24.04                 | 24.26                    | 24.31                  |                     |          |  |  |
| 1.4              | QPSK       | 1       | 5         | 24.31                 | 24.42                    | 24.25                  |                     |          |  |  |
| 1.4              | QPSK       | 3       | 0         | 24.21                 | 24.50                    | 24.42                  | 24.5                | 1        |  |  |
| 1.4              | QPSK       | 3       | 1         | 24.11                 | 24.36                    | 24.20                  |                     |          |  |  |
| 1.4              | QPSK       | 3       | 3         | 24.21                 | 24.26                    | 24.13                  |                     |          |  |  |
| 1.4              | QPSK       | 6       | 0         | 23.17                 | 23.44                    | 23.14                  | 24.5                | 1        |  |  |
| 1.4              | 16QAM      | 1       | 0         | 23.33                 | 23.37                    | 23.29                  |                     |          |  |  |
| 1.4              | 16QAM      | 1       | 3         | 23.07                 | 23.34                    | 23.23                  |                     |          |  |  |
| 1.4              | 16QAM      | 3       | 0         | 23.26                 | 23.39                    | 23.15                  | 24.5                | 1        |  |  |
| 1.4              | 16QAM      | 3       | 0         | 23.37                 | 23.45                    | 23.24                  |                     |          |  |  |
| 1.4              | 16QAM      | 3       | 1         | 23.19                 | 23.29                    | 23.15                  |                     |          |  |  |
| 1.4              | 16QAM      | 3       | 3         | 23.14                 | 23.52                    | 23.23                  | 23.5                | 2        |  |  |
| 1.4              | 16QAM      | 6       | 0         | 22.25                 | 22.50                    | 22.22                  |                     |          |  |  |
| 1.4              | 64QAM      | 1       | 0         | 22.52                 | 22.48                    | 22.31                  |                     |          |  |  |
| 1.4              | 64QAM      | 1       | 3         | 22.47                 | 22.48                    | 22.32                  | 23.5                | 2        |  |  |
| 1.4              | 64QAM      | 1       | 6         | 22.10                 | 22.16                    | 22.13                  |                     |          |  |  |
| 1.4              | 64QAM      | 3       | 0         | 22.56                 | 22.57                    | 22.43                  |                     |          |  |  |
| 1.4              | 64QAM      | 3       | 1         | 22.40                 | 22.23                    | 22.19                  | 22.5                | 3        |  |  |
| 1.4              | 64QAM      | 3       | 3         | 22.16                 | 22.14                    | 22.50                  |                     |          |  |  |
| 1.4              | 64QAM      | 6       | 0         | 21.00                 | 21.40                    | 21.45                  |                     |          |  |  |



GSM850 Ant 1 DSH

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | TX Channel                | 128   | 189   | 251                 | 128                       | 189   | 251   |                     |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   | 32.05                     | 32.09 | 32.03 | 33.50               | 23.05                     | 23.09 | 23.03 | 24.50               |
| GPRS 1 Tx slot  | 32.15                     | 32.18 | 32.16 | 33.50               | 23.15                     | 23.18 | 23.16 | 24.50               |
| GPRS 2 Tx slots | 30.03                     | 30.04 | 29.99 | 31.00               | 24.03                     | 24.04 | 23.99 | 25.00               |
| GPRS 3 Tx slots | 28.33                     | 28.34 | 28.31 | 29.50               | 24.07                     | 24.08 | 24.05 | 25.24               |
| GPRS 4 Tx slots | 26.44                     | 26.46 | 26.39 | 27.50               | 23.44                     | 23.46 | 23.39 | 24.50               |
| EDGE 1 Tx slot  | 26.75                     | 27.03 | 27.08 | 28.00               | 17.75                     | 18.03 | 18.08 | 19.00               |
| EDGE 2 Tx slots | 24.21                     | 24.50 | 24.57 | 25.50               | 18.21                     | 18.50 | 18.57 | 19.50               |
| EDGE 3 Tx slots | 22.57                     | 22.81 | 22.89 | 24.00               | 18.31                     | 18.55 | 18.63 | 19.74               |
| EDGE 4 Tx slots | 21.21                     | 21.43 | 21.56 | 22.50               | 18.21                     | 18.43 | 18.56 | 19.50               |

GSM1900 Ant 1 DSH

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
|                 | TX Channel                | 512   | 661    | 810                 | 512                       | 661   | 810    |                     |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot   | 26.73                     | 26.85 | 26.82  | 28.00               | 17.73                     | 17.85 | 17.82  | 19.00               |
| GPRS 1 Tx slot  | 26.68                     | 26.82 | 26.79  | 28.00               | 17.68                     | 17.82 | 17.79  | 19.00               |
| GPRS 2 Tx slots | 23.65                     | 23.69 | 23.61  | 25.00               | 17.65                     | 17.69 | 17.61  | 19.00               |
| GPRS 3 Tx slots | 21.60                     | 21.67 | 21.65  | 23.50               | 17.34                     | 17.41 | 17.39  | 19.24               |
| GPRS 4 Tx slots | 20.47                     | 20.29 | 20.61  | 21.50               | 17.47                     | 17.29 | 17.61  | 18.50               |
| EDGE 1 Tx slot  | 25.79                     | 25.74 | 25.68  | 27.00               | 16.79                     | 16.74 | 16.68  | 18.00               |
| EDGE 2 Tx slots | 23.39                     | 23.28 | 23.35  | 24.50               | 17.39                     | 17.28 | 17.35  | 18.50               |
| EDGE 3 Tx slots | 21.38                     | 21.43 | 21.39  | 23.00               | 17.12                     | 17.17 | 17.13  | 18.74               |
| EDGE 4 Tx slots | 20.25                     | 20.27 | 20.19  | 21.50               | 17.25                     | 17.27 | 17.19  | 18.50               |

WCDMA II Ant 1 DSH

WCDMA IV Ant 1 DSH

WCDMA V Ant 1 DSH

| Band            | WCDMA II           |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |       |
|-----------------|--------------------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|-------|
|                 | TX Channel         | 9262  | 9400   |                           | 9538     | 1312   | 1413   |                           | 1513    | 4132  | 4182  |                           | 4233  |
| Rx Channel      | 9662               | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |       |
| Frequency (MHz) | 1852.4             | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |       |
| 3GPP Rel 99     | AMR 12.2Kbps       | 20.40 | 20.44  | 20.28                     | 21.50    | 20.37  | 20.40  | 20.33                     | 21.50   | 24.33 | 24.43 | 24.23                     | 25.50 |
| 3GPP Rel 99     | RMC 12.2Kbps       | 20.43 | 20.48  | 20.32                     | 21.50    | 20.40  | 20.42  | 20.37                     | 21.50   | 24.43 | 24.55 | 24.33                     | 25.50 |
| 3GPP Rel 6      | HSDPA Subtest-1    | 18.43 | 18.54  | 18.46                     | 19.50    | 18.59  | 18.50  | 18.47                     | 19.50   | 23.62 | 23.61 | 23.66                     | 24.50 |
| 3GPP Rel 6      | HSDPA Subtest-2    | 18.42 | 18.44  | 18.44                     | 19.50    | 18.61  | 18.35  | 18.31                     | 19.50   | 23.53 | 23.56 | 23.58                     | 24.50 |
| 3GPP Rel 6      | HSDPA Subtest-3    | 17.92 | 18.02  | 18.03                     | 19.50    | 18.08  | 17.93  | 17.83                     | 19.50   | 23.03 | 23.06 | 23.11                     | 24.50 |
| 3GPP Rel 6      | HSDPA Subtest-4    | 17.98 | 17.93  | 17.97                     | 19.50    | 18.04  | 17.87  | 17.84                     | 19.50   | 23.05 | 23.06 | 23.09                     | 24.50 |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 18.31 | 18.43  | 18.49                     | 19.50    | 18.64  | 18.43  | 18.53                     | 19.50   | 23.54 | 23.72 | 23.70                     | 25.00 |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 18.34 | 18.39  | 18.42                     | 19.50    | 18.54  | 18.33  | 18.38                     | 19.50   | 23.52 | 23.45 | 23.57                     | 25.00 |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 17.91 | 17.92  | 17.92                     | 19.50    | 18.20  | 17.97  | 17.86                     | 19.50   | 22.96 | 22.98 | 23.11                     | 24.50 |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 17.92 | 18.03  | 18.08                     | 19.50    | 18.06  | 17.91  | 17.93                     | 19.50   | 22.95 | 22.99 | 23.14                     | 24.50 |
| 3GPP Rel 6      | HSUPA Subtest-1    | 18.50 | 18.51  | 18.52                     | 19.50    | 18.54  | 18.54  | 18.62                     | 19.50   | 21.66 | 21.52 | 21.66                     | 23.00 |
| 3GPP Rel 6      | HSUPA Subtest-2    | 16.49 | 16.59  | 16.50                     | 17.50    | 16.60  | 16.42  | 16.40                     | 17.50   | 21.56 | 21.48 | 21.63                     | 23.00 |
| 3GPP Rel 6      | HSUPA Subtest-3    | 17.52 | 17.52  | 17.49                     | 18.50    | 17.60  | 17.47  | 17.43                     | 18.50   | 22.63 | 22.56 | 22.63                     | 24.00 |
| 3GPP Rel 6      | HSUPA Subtest-4    | 16.36 | 16.20  | 16.28                     | 16.50    | 16.37  | 16.25  | 16.28                     | 16.50   | 21.03 | 20.99 | 21.10                     | 22.50 |
| 3GPP Rel 6      | HSUPA Subtest-5    | 18.50 | 18.50  | 18.40                     | 19.50    | 18.60  | 18.50  | 18.30                     | 19.50   | 22.50 | 22.40 | 22.50                     | 24.00 |







| Band 38 Ant1 DS14 |            |         |           |                       |                          |                        |                     |          |      |   |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|------|---|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |      |   |
| Channel           |            |         |           | 37850                 | 38000                    | 38150                  | Tune-up limit (dBm) | MPR (dB) |      |   |
| Frequency (MHz)   |            |         |           | 2590                  | 2595                     | 2610                   |                     |          |      |   |
| 20                | QPSK       | 1       | 0         | 17.79                 | 17.83                    | 17.80                  | 19.5                | 0        |      |   |
| 20                | QPSK       | 1       | 49        | 17.79                 | 17.69                    | 17.67                  |                     |          |      |   |
| 20                | QPSK       | 1       | 99        | 17.55                 | 17.72                    | 17.77                  |                     |          |      |   |
| 20                | QPSK       | 50      | 0         | 17.73                 | 17.82                    | 17.70                  | 19.5                | 0        |      |   |
| 20                | QPSK       | 50      | 24        | 17.76                 | 17.74                    | 17.78                  |                     |          |      |   |
| 20                | QPSK       | 50      | 50        | 17.75                 | 17.56                    | 17.66                  |                     |          |      |   |
| 20                | QPSK       | 100     | 0         | 17.70                 | 17.81                    | 17.67                  | 19.5                | 0        |      |   |
| 20                | 16QAM      | 1       | 0         | 17.72                 | 17.74                    | 17.68                  |                     |          |      |   |
| 20                | 16QAM      | 1       | 49        | 17.76                 | 17.79                    | 17.78                  |                     |          |      |   |
| 20                | 16QAM      | 1       | 99        | 17.69                 | 17.73                    | 17.57                  | 19.5                | 0        |      |   |
| 20                | 16QAM      | 50      | 0         | 17.52                 | 17.68                    | 17.78                  |                     |          |      |   |
| 20                | 16QAM      | 50      | 24        | 17.65                 | 17.75                    | 17.75                  |                     |          |      |   |
| 20                | 16QAM      | 50      | 50        | 17.52                 | 17.76                    | 17.65                  | 19.5                | 0        |      |   |
| 20                | 16QAM      | 100     | 0         | 17.55                 | 17.61                    | 17.76                  |                     |          |      |   |
| 20                | 64QAM      | 1       | 0         | 17.77                 | 17.73                    | 17.71                  | 19.5                | 0        |      |   |
| 20                | 64QAM      | 1       | 49        | 17.77                 | 17.73                    | 17.59                  |                     |          |      |   |
| 20                | 64QAM      | 1       | 99        | 17.80                 | 17.75                    | 17.79                  |                     |          |      |   |
| 20                | 64QAM      | 50      | 0         | 17.58                 | 17.76                    | 17.72                  | 19.5                | 0        |      |   |
| 20                | 64QAM      | 50      | 24        | 17.80                 | 17.59                    | 17.59                  |                     |          |      |   |
| 20                | 64QAM      | 50      | 50        | 17.66                 | 17.59                    | 17.65                  |                     |          |      |   |
| 20                | 64QAM      | 100     | 0         | 17.68                 | 17.75                    | 17.73                  |                     |          |      |   |
| Channel           |            |         |           | 37800                 | 38000                    | 38175                  | Tune-up limit (dBm) | MPR (dB) |      |   |
| Frequency (MHz)   |            |         |           | 2577.5                | 2595                     | 2612.5                 | Tune-up limit (dBm) | MPR (dB) |      |   |
| 15                | QPSK       | 1       | 0         | 17.73                 | 17.80                    | 17.64                  |                     |          | 19.5 | 0 |
| 15                | QPSK       | 1       | 37        | 17.76                 | 17.63                    | 17.65                  |                     |          |      |   |
| 15                | QPSK       | 1       | 74        | 17.59                 | 17.73                    | 17.73                  |                     |          |      |   |
| 15                | QPSK       | 36      | 0         | 17.75                 | 17.73                    | 17.63                  | 19.5                | 0        |      |   |
| 15                | QPSK       | 36      | 20        | 17.80                 | 17.75                    | 17.75                  |                     |          |      |   |
| 15                | QPSK       | 36      | 39        | 17.78                 | 17.63                    | 17.73                  |                     |          |      |   |
| 15                | QPSK       | 75      | 0         | 17.67                 | 17.79                    | 17.71                  | 19.5                | 0        |      |   |
| 15                | 16QAM      | 1       | 0         | 17.79                 | 17.70                    | 17.69                  |                     |          |      |   |
| 15                | 16QAM      | 1       | 37        | 17.73                 | 17.79                    | 17.81                  |                     |          |      |   |
| 15                | 16QAM      | 1       | 74        | 17.69                 | 17.65                    | 17.51                  | 19.5                | 0        |      |   |
| 15                | 16QAM      | 36      | 0         | 17.50                 | 17.65                    | 17.81                  |                     |          |      |   |
| 15                | 16QAM      | 36      | 20        | 17.59                 | 17.71                    | 17.76                  |                     |          |      |   |
| 15                | 16QAM      | 36      | 39        | 17.52                 | 17.80                    | 17.71                  | 19.5                | 0        |      |   |
| 15                | 16QAM      | 75      | 0         | 17.76                 | 17.64                    | 17.78                  |                     |          |      |   |
| 15                | 64QAM      | 1       | 0         | 17.79                 | 17.81                    | 17.76                  |                     |          |      |   |
| 15                | 64QAM      | 1       | 37        | 17.70                 | 17.81                    | 17.55                  | 19.5                | 0        |      |   |
| 15                | 64QAM      | 1       | 74        | 17.73                 | 17.77                    | 17.72                  |                     |          |      |   |
| 15                | 64QAM      | 36      | 0         | 17.58                 | 17.73                    | 17.79                  |                     |          |      |   |
| 15                | 64QAM      | 36      | 20        | 17.74                 | 17.80                    | 17.60                  | 19.5                | 0        |      |   |
| 15                | 64QAM      | 36      | 39        | 17.73                 | 17.67                    | 17.80                  |                     |          |      |   |
| 15                | 64QAM      | 75      | 0         | 17.76                 | 17.76                    | 17.81                  |                     |          |      |   |
| Channel           |            |         |           | 37800                 | 38000                    | 38200                  | Tune-up limit (dBm) | MPR (dB) |      |   |
| Frequency (MHz)   |            |         |           | 2575                  | 2595                     | 2615                   | Tune-up limit (dBm) | MPR (dB) |      |   |
| 10                | QPSK       | 1       | 0         | 17.79                 | 17.78                    | 17.53                  |                     |          | 19.5 | 0 |
| 10                | QPSK       | 1       | 25        | 17.74                 | 17.67                    | 17.63                  |                     |          |      |   |
| 10                | QPSK       | 1       | 49        | 17.60                 | 17.64                    | 17.74                  |                     |          |      |   |
| 10                | QPSK       | 25      | 0         | 17.71                 | 17.55                    | 17.75                  | 19.5                | 0        |      |   |
| 10                | QPSK       | 25      | 12        | 17.71                 | 17.75                    | 17.70                  |                     |          |      |   |
| 10                | QPSK       | 25      | 25        | 17.73                 | 17.63                    | 17.57                  |                     |          |      |   |
| 10                | QPSK       | 50      | 0         | 17.72                 | 17.80                    | 17.64                  | 19.5                | 0        |      |   |
| 10                | 16QAM      | 1       | 0         | 17.71                 | 17.68                    | 17.76                  |                     |          |      |   |
| 10                | 16QAM      | 1       | 25        | 17.74                 | 17.71                    | 17.80                  |                     |          |      |   |
| 10                | 16QAM      | 1       | 49        | 17.66                 | 17.76                    | 17.58                  | 19.5                | 0        |      |   |
| 10                | 16QAM      | 25      | 0         | 17.80                 | 17.76                    | 17.74                  |                     |          |      |   |
| 10                | 16QAM      | 25      | 12        | 17.74                 | 17.81                    | 17.80                  |                     |          |      |   |
| 10                | 16QAM      | 25      | 25        | 17.51                 | 17.72                    | 17.71                  | 19.5                | 0        |      |   |
| 10                | 16QAM      | 50      | 0         | 17.73                 | 17.55                    | 17.79                  |                     |          |      |   |
| 10                | 64QAM      | 1       | 0         | 17.78                 | 17.65                    | 17.68                  |                     |          |      |   |
| 10                | 64QAM      | 1       | 25        | 17.79                 | 17.71                    | 17.66                  | 19.5                | 0        |      |   |
| 10                | 64QAM      | 1       | 49        | 17.55                 | 17.66                    | 17.80                  |                     |          |      |   |
| 10                | 64QAM      | 25      | 0         | 17.80                 | 17.80                    | 17.80                  |                     |          |      |   |
| 10                | 64QAM      | 25      | 12        | 17.74                 | 17.80                    | 17.62                  | 19.5                | 0        |      |   |
| 10                | 64QAM      | 25      | 25        | 17.81                 | 17.81                    | 17.56                  |                     |          |      |   |
| 10                | 64QAM      | 50      | 0         | 17.75                 | 17.71                    | 17.67                  |                     |          |      |   |
| Channel           |            |         |           | 37175                 | 38000                    | 38225                  | Tune-up limit (dBm) | MPR (dB) |      |   |
| Frequency (MHz)   |            |         |           | 2572.5                | 2595                     | 2617.5                 | Tune-up limit (dBm) | MPR (dB) |      |   |
| 5                 | QPSK       | 1       | 0         | 17.77                 | 17.79                    | 17.60                  |                     |          | 19.5 | 0 |
| 5                 | QPSK       | 1       | 12        | 17.73                 | 17.78                    | 17.67                  |                     |          |      |   |
| 5                 | QPSK       | 1       | 24        | 17.53                 | 17.72                    | 17.81                  |                     |          |      |   |
| 5                 | QPSK       | 12      | 0         | 17.81                 | 17.74                    | 17.74                  | 19.5                | 0        |      |   |
| 5                 | QPSK       | 12      | 7         | 17.69                 | 17.77                    | 17.79                  |                     |          |      |   |
| 5                 | QPSK       | 12      | 13        | 17.66                 | 17.52                    | 17.72                  |                     |          |      |   |
| 5                 | QPSK       | 25      | 0         | 17.61                 | 17.53                    | 17.61                  | 19.5                | 0        |      |   |
| 5                 | 16QAM      | 1       | 0         | 17.64                 | 17.81                    | 17.65                  |                     |          |      |   |
| 5                 | 16QAM      | 1       | 12        | 17.74                 | 17.71                    | 17.80                  |                     |          |      |   |
| 5                 | 16QAM      | 1       | 24        | 17.70                 | 17.70                    | 17.62                  | 19.5                | 0        |      |   |
| 5                 | 16QAM      | 12      | 0         | 17.52                 | 17.70                    | 17.75                  |                     |          |      |   |
| 5                 | 16QAM      | 12      | 7         | 17.72                 | 17.67                    | 17.74                  |                     |          |      |   |
| 5                 | 16QAM      | 12      | 13        | 17.80                 | 17.76                    | 17.71                  | 19.5                | 0        |      |   |
| 5                 | 16QAM      | 25      | 0         | 17.80                 | 17.60                    | 17.74                  |                     |          |      |   |
| 5                 | 64QAM      | 1       | 0         | 17.81                 | 17.66                    | 17.73                  |                     |          |      |   |
| 5                 | 64QAM      | 1       | 12        | 17.75                 | 17.66                    | 17.55                  | 19.5                | 0        |      |   |
| 5                 | 64QAM      | 1       | 24        | 17.74                 | 17.74                    | 17.79                  |                     |          |      |   |
| 5                 | 64QAM      | 12      | 0         | 17.65                 | 17.81                    | 17.75                  |                     |          |      |   |
| 5                 | 64QAM      | 12      | 7         | 17.72                 | 17.80                    | 17.69                  | 19.5                | 0        |      |   |
| 5                 | 64QAM      | 12      | 13        | 17.80                 | 17.76                    | 17.80                  |                     |          |      |   |
| 5                 | 64QAM      | 25      | 0         | 17.73                 | 17.77                    | 17.78                  |                     |          |      |   |

| Band 41 Ant1 DS14 |            |         |           |                       |                              |                          |                               |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| 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                    | 41093                         | 41565                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20                | QPSK       | 1       | 0         | 17.61                 | 17.65                        | 17.85                    | 17.68                         | 17.71                  | 19.5                | 0        |
| 20                | QPSK       | 1       | 49        | 17.61                 | 17.61                        | 17.71                    | 17.64                         | 17.53                  |                     |          |
| 20                | QPSK       | 1       | 99        | 17.55                 | 17.67                        | 17.84                    | 17.64                         | 17.57                  |                     |          |
| 20                | QPSK       | 50      | 0         | 17.63                 | 17.67                        | 17.72                    | 17.66                         | 17.63                  | 19.5                | 0        |
| 20                | QPSK       | 50      | 24        | 17.69                 | 17.54                        | 17.70                    | 17.62                         | 17.58                  |                     |          |
| 20                | QPSK       | 50      | 50        | 17.52                 | 17.59                        | 17.70                    | 17.51                         | 17.54                  |                     |          |
| 20                | QPSK       | 100     | 0         | 17.76                 | 17.72                        | 17.83                    | 17.52                         | 17.59                  | 19.5                | 0        |
| 20                | 16QAM      | 1       | 0         | 17.82                 | 17.60                        | 17.76                    | 17.64                         | 17.71                  |                     |          |
| 20                | 16QAM      | 1       | 49        | 17.79                 | 17.51                        | 17.72                    | 17.54                         | 17.72                  |                     |          |
| 20                | 16QAM      | 1       | 99        | 17.60                 | 17.62                        | 17.82                    | 17.63                         | 17.64                  | 19.5                | 0        |
| 20                | 16QAM      | 50      | 0         | 17.59                 | 17.61                        | 17.76                    | 17.57                         | 17.65                  |                     |          |
| 20                | 16QAM      | 50      | 24        | 17.79                 | 17.76                        | 17.69                    | 17.60                         | 17.52                  |                     |          |
| 20                | 16QAM      | 50      | 50        | 17.58                 | 17.61                        | 17.83                    | 17.84                         | 17.71                  | 19.5                | 0        |
| 20                | 16QAM      | 100     | 0         | 17.65                 | 17.83                        | 17.80                    | 17.50                         | 17.50                  |                     |          |
| 20                | 64QAM      | 1       | 0         | 17.61                 | 17.77                        | 17.74                    | 17.68                         | 17.61                  |                     |          |
| 20                | 64QAM      | 1       | 49        | 17.67                 | 17.65                        | 17.67                    | 17.58                         | 17.69                  | 19.5                | 0        |
| 20                | 64QAM      | 1       | 99        | 17.61                 | 17.71                        | 17.77                    | 17.72                         | 17.65                  |                     |          |
| 20                | 64QAM      | 50      | 0         | 17.70                 | 17.55                        | 17.67                    | 17.60                         | 17.58                  |                     |          |
| 20                | 64QAM      | 50      | 24        | 17.66                 | 17.62                        | 17.65                    | 17.69                         | 17.73                  | 19.5                | 0        |
| 20                | 64QAM      | 50      | 50        | 17.63                 | 17.62                        | 17.81                    | 17.50                         | 17.63                  |                     |          |
| 20                | 64QAM      | 100     | 0         | 17.67                 | 17.67                        | 17.82                    | 17.57                         | 17.61                  |                     |          |
| Channel           |            |         |           | 39726                 | 40173                        | 40600                    | 41068                         | 41515                  | Tune-up limit (dBm) | MPR (dB) |
| 15                | QPSK       | 1       | 0         | 17.50                 | 17.62                        | 17.82                    | 17.52                         | 17.62                  | 19.50               | 0        |
| 15                | QPSK       | 1       | 37        | 17.57                 | 17.55                        | 17.57                    | 17.76                         | 17.59                  |                     |          |
| 15                | QPSK       | 1       | 74        | 17.61                 | 17.63                        | 17.68                    | 17.73                         | 17.52                  |                     |          |
| 15                | QPSK       | 36      | 0         | 17.50                 | 17.65                        | 17.50                    | 17.61                         | 17.59                  | 19.5                | 0        |
| 15                | QPSK       | 36      | 20        | 17.59                 | 17.57                        | 17.75                    | 17.69                         | 17.50                  |                     |          |
| 15                | QPSK       | 36      | 36        | 17.66                 | 17.74                        | 17.66                    | 17.77                         | 17.61                  |                     |          |
| 15                | QPSK       | 75      | 0         | 17.63                 | 17.74                        | 17.72                    | 17.73                         | 17.58                  | 19.5                | 0        |
| 15                | 16QAM      | 1       | 0         | 17.68                 | 17.55                        | 17.75                    | 17.62                         | 17.55                  |                     |          |
| 15                | 16QAM      | 1       | 37        | 17.67                 | 17.52                        | 17.68                    | 17.66                         | 17.71                  |                     |          |
| 15                | 16QAM      | 1       | 74        | 17.67                 | 17.64                        | 17.73                    | 17.79                         | 17.50                  | 19.5                | 0        |
| 15                | 16QAM      | 36      | 0         | 17.50                 | 17.68                        | 17.76                    | 17.68                         | 17.65                  |                     |          |
| 15                | 16QAM      | 36      | 20        | 17.66                 | 17.66                        | 17.77                    | 17.77                         | 17.51                  |                     |          |
| 15                | 16QAM      | 36      | 36        | 17.65                 | 17.70                        | 17.66                    | 17.76                         | 17.50                  | 19.5                | 0        |
| 15                | 16QAM      | 75      | 0         | 17.67                 | 17.56                        | 17.66                    | 17.54                         | 17.62                  |                     |          |
| 15                | 64QAM      | 1       | 0         | 17.59                 | 17.74                        | 17.70                    | 17.73                         | 17.71                  |                     |          |
| 15                | 64QAM      | 1       | 37        | 17.64                 | 17.54                        | 17.65                    | 17.68                         | 17.53                  | 19.5                | 0        |
| 15                | 64QAM      | 1       | 74        | 17.62                 | 17.62                        | 17.77                    | 17.61                         | 17.65                  |                     |          |
| 15                | 64QAM      | 36      | 0         | 17.64                 | 17.62                        | 17.82                    | 17.78                         | 17.55                  |                     |          |
| 15                | 64QAM      | 36      | 20        | 17.64                 | 17.65                        | 17.57                    | 17.69                         | 17.73                  | 19.5                | 0        |
| 15                | 64QAM      | 36      | 39        | 17.66                 | 17.65                        | 17.70                    | 17.69                         | 17.54                  |                     |          |
| 15                | 64QAM      | 75      | 0         | 17.55                 | 17.64                        | 17.66                    | 17.76                         | 17.66                  |                     |          |
| Channel           |            |         |           | 39700                 | 40160                        | 40600                    | 41080                         | 41540                  | Tune-up limit (dBm) | MPR (dB) |
| 10                | QPSK       | 1       | 0         | 17.58                 | 17.74                        | 17.72                    | 17.64                         | 17.67                  | 19.50               | 0        |
| 10                | QPSK       | 1       | 25        | 17.64                 | 17.69                        | 17.70                    | 17.77                         | 17.52                  |                     |          |
| 10                | QPSK       | 1       | 49        | 17.54                 | 17.74                        | 17.73                    | 17.63                         | 17.62                  |                     |          |
| 10                | QPSK       | 25      | 0         | 17.54                 | 17.61                        | 17.63                    | 17.59                         | 17.68                  | 19.5                | 0        |
| 10                | QPSK       | 25      | 12        | 17.52                 | 17.71                        | 17.68                    | 17.68                         | 17.51                  |                     |          |
| 10                | QPSK       | 25      | 25        | 17.52                 | 17.62                        | 17.67                    | 17.79                         | 17.53                  |                     |          |
| 10                | QPSK       | 50      | 0         | 17.58                 | 17.58                        | 17.70                    | 17.55                         | 17.61                  | 19.5                | 0        |
| 10                | 16QAM      | 1       | 0         | 17.66                 | 17.77                        | 17.69                    | 17.73                         | 17.59                  |                     |          |
| 10                | 16QAM      | 1       | 25        | 17.56                 | 17.61                        | 17.72                    | 17.75                         | 17.50                  |                     |          |
| 10                | 16QAM      | 1       | 49        | 17.69                 | 17.75                        | 17.72                    | 17.80                         | 17.62                  | 19.5                | 0        |
| 10                | 16QAM      | 25      | 0         | 17.67                 | 17.56                        | 17.67                    | 17.67                         | 17.54                  |                     |          |
| 10                | 16QAM      | 25      | 12        | 17.69                 | 17.73                        | 17.64                    | 17.84                         | 17.72                  |                     |          |
| 10                | 16QAM      | 25      | 25        | 17.55                 | 17.71                        | 17.72                    | 17.77                         | 17.55                  | 19.5                | 0        |
| 10                | 16QAM      | 50      | 0         | 17.62                 | 17.58                        | 17.74                    | 17.70                         | 17.53                  |                     |          |
| 10                | 64QAM      | 1       | 0         | 17.68                 | 17.74                        | 17.70                    | 17.77                         | 17.54                  |                     |          |
| 10                | 64QAM      | 1       | 25        | 17.51                 | 17.58                        | 17.62                    | 17.59                         | 17.62                  | 19.5                | 0        |
| 10                | 64QAM      | 1       | 49        | 17.53                 | 17.66                        | 17.78                    | 17.52                         | 17.61                  |                     |          |
| 10                | 64QAM      | 25      | 0         | 17.52                 | 17.64                        | 17.71                    | 17.54                         | 17.71                  |                     |          |
| 10                | 64QAM      | 25      | 12        | 17.69                 | 17.59                        | 17.76                    | 17.90                         | 17.73                  | 19.5                | 0        |
| 10                | 64QAM      | 25      | 25        | 17.60                 | 17.57                        | 17.68                    | 17.77                         | 17.56                  |                     |          |
| 10                | 64QAM      | 50      | 0         | 17.65                 | 17.62                        | 17.69                    | 17.56                         | 17.54                  |                     |          |
| Channel           |            |         |           | 39675                 | 40148                        | 40620                    | 41093                         | 41565                  | Tune-up limit (dBm) | MPR (dB) |
| 5                 | QPSK       | 1       | 0         | 17.53                 | 17.54                        | 17.72                    | 17.64                         | 17.67                  | 19.50               | 0        |
| 5                 | QPSK       | 1       | 12        | 17.59                 | 17.57                        | 17.67                    | 17.75                         | 17.56                  |                     |          |
| 5                 | QPSK       | 1       | 24        | 17.58                 | 17.76                        | 17.62                    | 17.67                         | 17.71                  |                     |          |
| 5                 | QPSK       | 12      | 0         | 17.64                 | 17.73                        | 17.68                    | 17.80                         | 17.51                  | 19.5                | 0        |
| 5                 | QPSK       | 12      | 7         | 17.64                 | 17.67                        | 17.66                    | 17.52                         | 17.62                  |                     |          |
| 5                 | QPSK       | 12      | 13        | 17.70                 | 17.70                        | 17.79                    | 17.77                         | 17.56                  |                     |          |
| 5                 | QPSK       | 25      | 0         | 17.65                 | 17.76                        | 17.63                    | 17.73                         | 17.60                  | 19.5                | 0        |
| 5                 | 16QAM      | 1       | 0         | 17.71                 | 17.70                        | 17.75                    | 17.81                         | 17.56                  |                     |          |
| 5                 | 16QAM      | 1       | 12        | 17.69                 | 17.57                        | 17.52                    | 17.52                         | 17.58                  |                     |          |
| 5                 | 16QAM      | 1       | 24        | 17.58                 | 17.70                        | 17.72                    | 17.80                         | 17.59                  | 19.5                | 0        |
| 5                 | 16QAM      | 12      | 0         | 17.53                 | 17.55                        | 17.64                    | 17.76                         | 17.54                  |                     |          |
| 5                 | 16QAM      | 12      | 7         | 17.74                 | 17.62                        | 17.68                    | 17.92                         | 17.54                  |                     |          |
| 5                 | 16QAM      | 12      | 13        | 17.69                 | 17.56                        | 17.62                    | 17.66                         | 17.70                  | 19.5                | 0        |
| 5                 | 16QAM      | 25      | 0         | 17.58                 | 17.60                        | 17.84                    | 17.70                         | 17.57                  |                     |          |
| 5                 | 64QAM      | 1       | 0         | 17.54                 | 17.61                        | 17.68                    | 17.70                         | 17.73                  |                     |          |
| 5                 | 64QAM      | 1       | 12        | 17.54                 | 17.72                        | 17.70                    | 17.83                         | 17.54                  | 19.5                | 0        |
| 5                 | 64QAM      | 1       | 24        | 17.71                 | 17.54                        | 17.54                    | 17.67                         | 17.66                  |                     |          |
| 5                 | 64QAM      | 12      | 0         | 17.53                 | 17.57                        | 17.64                    | 17.70                         | 17.52                  |                     |          |
| 5                 | 64QAM      | 12      | 7         | 17.63                 | 17.83                        | 17.84                    | 17.53                         | 17.52                  | 19.5                | 0        |
| 5                 | 64QAM      | 12      | 13        | 17.60                 | 17.71                        | 17.72                    | 17.84                         | 17.53                  |                     |          |
| 5                 | 64QAM      | 25      | 0         | 17.59                 | 17.56                        | 17.71                    | 17.82                         | 17.69                  |                     |          |

| GSM850 Ant 2 DSH |  |                           |       |       |                     |                           |       |       |                     |
|------------------|--|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| GSM850           |  | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
| TX Channel       |  | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| Frequency (MHz)  |  | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot    |  | 32.26                     | 32.33 | 32.21 | 33.50               | 23.26                     | 23.33 | 23.21 | 24.50               |
| GPRS 1 Tx slot   |  | 32.34                     | 32.38 | 32.29 | 33.50               | 23.34                     | 23.38 | 23.29 | 24.50               |
| GPRS 2 Tx slots  |  | 30.17                     | 30.11 | 30.02 | 31.00               | 24.17                     | 24.11 | 24.02 | 25.00               |
| GPRS 3 Tx slots  |  | 28.40                     | 28.43 | 28.30 | 29.50               | 24.14                     | 24.17 | 24.04 | 25.24               |
| GPRS 4 Tx slots  |  | 26.46                     | 26.44 | 26.33 | 27.50               | 23.46                     | 23.44 | 23.33 | 24.50               |
| EDGE 1 Tx slot   |  | 27.06                     | 27.30 | 27.39 | 28.00               | 18.06                     | 18.30 | 18.39 | 19.00               |
| EDGE 2 Tx slots  |  | 24.55                     | 24.78 | 24.88 | 25.50               | 18.55                     | 18.78 | 18.88 | 19.50               |
| EDGE 3 Tx slots  |  | 22.84                     | 23.03 | 23.19 | 24.00               | 18.58                     | 18.77 | 18.93 | 19.74               |
| EDGE 4 Tx slots  |  | 21.56                     | 21.73 | 21.83 | 22.50               | 18.56                     | 18.73 | 18.93 | 19.50               |

| GSM1900 Ant 2 DSH |  |                           |       |        |                     |                           |       |        |                     |
|-------------------|--|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
| GSM1900           |  | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
| TX Channel        |  | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| Frequency (MHz)   |  | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot     |  | 26.20                     | 25.93 | 26.07  | 27.00               | 17.20                     | 16.93 | 17.07  | 18.00               |
| GPRS 1 Tx slot    |  | 26.16                     | 25.88 | 25.95  | 27.00               | 17.16                     | 16.88 | 16.95  | 18.00               |
| GPRS 2 Tx slots   |  | 22.69                     | 22.39 | 22.55  | 23.50               | 16.69                     | 16.39 | 16.55  | 17.50               |
| GPRS 3 Tx slots   |  | 21.07                     | 21.11 | 21.05  | 22.50               | 16.81                     | 16.85 | 16.79  | 18.24               |
| GPRS 4 Tx slots   |  | 19.49                     | 19.28 | 19.61  | 20.50               | 16.49                     | 16.28 | 16.61  | 17.50               |
| EDGE 1 Tx slot    |  | 26.21                     | 25.92 | 25.96  | 27.00               | 17.21                     | 16.92 | 16.96  | 18.00               |
| EDGE 2 Tx slots   |  | 23.05                     | 22.70 | 22.82  | 23.50               | 17.05                     | 16.70 | 16.82  | 17.50               |
| EDGE 3 Tx slots   |  | 21.30                     | 20.91 | 20.90  | 22.00               | 17.04                     | 16.65 | 16.64  | 17.74               |
| EDGE 4 Tx slots   |  | 19.98                     | 19.92 | 19.64  | 20.50               | 16.98                     | 16.92 | 16.64  | 17.50               |

| WCDMA II Ant 2 DSH            |  |          |       |        |                     |          |        |        |                     |
|-------------------------------|--|----------|-------|--------|---------------------|----------|--------|--------|---------------------|
| Band                          |  | WCDMA II |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) |
| TX Channel                    |  | 9262     | 9400  | 9538   |                     | 1312     | 1413   | 1513   |                     |
| Rx Channel                    |  | 9662     | 9800  | 9938   |                     | 1537     | 1638   | 1738   |                     |
| Frequency (MHz)               |  | 1852.4   | 1880  | 1907.6 |                     | 1712.4   | 1732.6 | 1752.6 |                     |
| 3GPP Rel 99 AMR 12.2Kbps      |  | 17.25    | 17.34 | 17.29  | 18.00               | 18.19    | 18.23  | 18.18  | 18.50               |
| 3GPP Rel 99 RMC 12.2Kbps      |  | 17.29    | 17.38 | 17.32  | 18.00               | 18.24    | 18.27  | 18.22  | 18.50               |
| 3GPP Rel 6 HSDPA Subtest-1    |  | 15.38    | 15.40 | 15.35  | 16.00               | 16.35    | 16.34  | 16.29  | 16.50               |
| 3GPP Rel 6 HSDPA Subtest-2    |  | 15.26    | 15.33 | 15.28  | 16.00               | 16.35    | 16.20  | 16.13  | 16.50               |
| 3GPP Rel 6 HSDPA Subtest-3    |  | 14.71    | 14.80 | 14.88  | 16.00               | 15.88    | 15.76  | 15.71  | 16.50               |
| 3GPP Rel 6 HSDPA Subtest-4    |  | 14.82    | 14.85 | 14.82  | 16.00               | 15.84    | 15.71  | 15.60  | 16.50               |
| 3GPP Rel 8 DC-HSDPA Subtest-1 |  | 15.33    | 15.46 | 15.35  | 16.00               | 16.28    | 16.28  | 16.18  | 16.50               |
| 3GPP Rel 8 DC-HSDPA Subtest-2 |  | 15.37    | 15.28 | 15.36  | 16.00               | 16.44    | 16.08  | 16.10  | 16.50               |
| 3GPP Rel 8 DC-HSDPA Subtest-3 |  | 14.75    | 14.80 | 14.81  | 16.00               | 15.86    | 15.87  | 15.67  | 16.50               |
| 3GPP Rel 8 DC-HSDPA Subtest-4 |  | 14.93    | 14.87 | 14.82  | 16.00               | 15.87    | 15.65  | 15.64  | 16.50               |
| 3GPP Rel 6 HSUPA Subtest-1    |  | 15.25    | 15.37 | 15.20  | 16.00               | 16.29    | 16.37  | 16.22  | 16.50               |
| 3GPP Rel 6 HSUPA Subtest-2    |  | 13.32    | 13.37 | 13.39  | 15.00               | 14.38    | 14.45  | 14.39  | 15.50               |
| 3GPP Rel 6 HSUPA Subtest-3    |  | 14.36    | 14.43 | 14.41  | 16.00               | 15.30    | 15.42  | 15.38  | 16.50               |
| 3GPP Rel 6 HSUPA Subtest-4    |  | 13.35    | 13.42 | 13.42  | 15.00               | 14.34    | 14.44  | 14.37  | 15.50               |
| 3GPP Rel 6 HSUPA Subtest-5    |  | 15.28    | 15.38 | 15.27  | 16.00               | 16.28    | 16.35  | 16.31  | 16.50               |

| WCDMA V Ant 2 DSH             |  |         |       |       |                     |         |       |       |                     |
|-------------------------------|--|---------|-------|-------|---------------------|---------|-------|-------|---------------------|
| Band                          |  | WCDMA V |       |       | Tune-up Limit (dBm) | WCDMA V |       |       | Tune-up Limit (dBm) |
| TX Channel                    |  | 4132    | 4182  | 4233  |                     | 4132    | 4182  | 4233  |                     |
| Rx Channel                    |  | 4357    | 4407  | 4458  |                     | 4357    | 4407  | 4458  |                     |
| Frequency (MHz)               |  | 826.4   | 836.4 | 846.6 |                     | 826.4   | 836.4 | 846.6 |                     |
| 3GPP Rel 99 AMR 12.2Kbps      |  | 24.44   | 24.50 | 24.46 | 25.50               | 24.44   | 24.50 | 24.46 | 25.50               |
| 3GPP Rel 99 RMC 12.2Kbps      |  | 24.56   | 24.59 | 24.53 | 25.50               | 24.56   | 24.59 | 24.53 | 25.50               |
| 3GPP Rel 6 HSDPA Subtest-1    |  | 23.58   | 23.49 | 23.58 | 24.50               | 23.58   | 23.49 | 23.58 | 24.50               |
| 3GPP Rel 6 HSDPA Subtest-2    |  | 23.49   | 23.38 | 23.42 | 24.50               | 23.49   | 23.38 | 23.42 | 24.50               |
| 3GPP Rel 6 HSDPA Subtest-3    |  | 23.01   | 22.90 | 22.94 | 24.50               | 23.01   | 22.90 | 22.94 | 24.50               |
| 3GPP Rel 6 HSDPA Subtest-4    |  | 23.03   | 22.90 | 22.92 | 24.50               | 23.03   | 22.90 | 22.92 | 24.50               |
| 3GPP Rel 8 DC-HSDPA Subtest-1 |  | 23.45   | 23.53 | 23.69 | 25.00               | 23.45   | 23.53 | 23.69 | 25.00               |
| 3GPP Rel 8 DC-HSDPA Subtest-2 |  | 23.51   | 23.49 | 23.32 | 25.00               | 23.51   | 23.49 | 23.32 | 25.00               |
| 3GPP Rel 8 DC-HSDPA Subtest-3 |  | 22.97   | 22.97 | 22.85 | 24.50               | 22.97   | 22.97 | 22.85 | 24.50               |
| 3GPP Rel 8 DC-HSDPA Subtest-4 |  | 22.91   | 23.00 | 23.01 | 24.50               | 22.91   | 23.00 | 23.01 | 24.50               |
| 3GPP Rel 6 HSUPA Subtest-1    |  | 21.52   | 21.43 | 21.49 | 23.00               | 21.52   | 21.43 | 21.49 | 23.00               |
| 3GPP Rel 6 HSUPA Subtest-2    |  | 21.49   | 21.43 | 21.40 | 23.00               | 21.49   | 21.43 | 21.40 | 23.00               |
| 3GPP Rel 6 HSUPA Subtest-3    |  | 22.52   | 22.38 | 22.48 | 24.00               | 22.52   | 22.38 | 22.48 | 24.00               |
| 3GPP Rel 6 HSUPA Subtest-4    |  | 20.97   | 20.90 | 20.95 | 22.50               | 20.97   | 20.90 | 20.95 | 22.50               |
| 3GPP Rel 6 HSUPA Subtest-5    |  | 22.37   | 22.37 | 22.37 | 24.00               | 22.37   | 22.37 | 22.37 | 24.00               |









# UL CA Power

| Ant 1 Full Power                    |             | DSI1       |         |           |         |           |               |                       |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| CA_7C                               |             |            |         |           |         |           |               |                       |                      |                     |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                               | 21048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 23.83                | 25.50               |
| 21100                               | 21298       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 23.91                | 25.50               |
| 21350                               | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.70                | 25.50               |
| 20850                               | 21048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 1                     | 22.68                | 24.50               |
| 21100                               | 21298       | QPSK       | 1       | 49        | 50      | 0         | 2             | 1                     | 22.88                | 24.50               |
| 21350                               | 21152       | QPSK       | 50      | 0         | 1       | 49        | 2             | 1                     | 22.86                | 24.50               |

| Ant 2 Full Power                    |             |            | Default |           |         |           |               |                       |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| CA_7C                               |             |            |         |           |         |           |               |                       |                      |                     |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                               | 21048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 24.06                | 25.50               |
| 21100                               | 21298       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 24.08                | 25.50               |
| 21350                               | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.01                | 25.50               |
| 20850                               | 21048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 1                     | 23.20                | 24.50               |
| 21100                               | 21298       | QPSK       | 1       | 49        | 50      | 0         | 2             | 1                     | 23.30                | 24.50               |
| 21350                               | 21152       | QPSK       | 50      | 0         | 1       | 49        | 2             | 1                     | 23.07                | 24.50               |

| Ant 1 Down Power                    |             |            | DSI2    |           |         |           |               |                       |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| CA_7C                               |             |            |         |           |         |           |               |                       |                      |                     |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                               | 21048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 21.55                | 23.00               |
| 21100                               | 21298       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 21.65                | 23.00               |
| 21350                               | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.22                | 23.00               |
| 20850                               | 21048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 21.57                | 23.00               |
| 21100                               | 21298       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 21.61                | 23.00               |
| 21350                               | 21152       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0                     | 21.54                | 23.00               |

| Ant 1 Down Power                    |             | DSI3       |         |           |         |           |               |                       |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| CA_7C                               |             |            |         |           |         |           |               |                       |                      |                     |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                               | 21048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 17.67                | 19.50               |
| 21100                               | 21298       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 17.90                | 19.50               |
| 21350                               | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 17.57                | 19.50               |
| 20850                               | 21048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 17.59                | 19.50               |
| 21100                               | 21298       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 17.84                | 19.50               |
| 21350                               | 21152       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0                     | 17.79                | 19.50               |

| Ant 2 Down Power                    |             |            | DSI1&4  |           |         |           |               |                       |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| CA_7C                               |             |            |         |           |         |           |               |                       |                      |                     |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                               | 21048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 17.46                | 19.00               |
| 21100                               | 21298       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 17.87                | 19.00               |
| 21350                               | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 17.63                | 19.00               |
| 20850                               | 21048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 17.41                | 19.00               |
| 21100                               | 21298       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 17.79                | 19.00               |
| 21350                               | 21152       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0                     | 17.45                | 19.00               |

| Ant 2 Down Power                    |             |            | DSI2    |           |         |           |               |                       |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| CA_7C                               |             |            |         |           |         |           |               |                       |                      |                     |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                               | 21048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 22.53                | 24.00               |
| 21100                               | 21298       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 22.74                | 24.00               |
| 21350                               | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 22.59                | 24.00               |
| 20850                               | 21048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 22.44                | 24.00               |
| 21100                               | 21298       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 22.56                | 24.00               |
| 21350                               | 21152       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0                     | 22.57                | 24.00               |

| Ant 1 Full Power                    |             |            | DS11&2  |           |         |           |               |                       |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| CA_38C                              |             |            |         |           |         |           |               |                       |                      |                     |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 37850                               | 38048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 23.79                | 25.50               |
| 37901                               | 38099       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 23.86                | 25.50               |
| 38150                               | 37952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.62                | 25.50               |
| 37850                               | 38048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 1                     | 22.80                | 24.50               |
| 37901                               | 38099       | QPSK       | 1       | 49        | 50      | 0         | 2             | 1                     | 22.73                | 24.50               |
| 38150                               | 37952       | QPSK       | 50      | 0         | 1       | 49        | 2             | 1                     | 22.71                | 24.50               |

| Ant 2 Full Power                    |             |            | DS12    |           |         |           |               |                       |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| CA_38C                              |             |            |         |           |         |           |               |                       |                      |                     |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 37850                               | 38048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 24.14                | 25.50               |
| 37901                               | 38099       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 24.17                | 25.50               |
| 38150                               | 37952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.93                | 25.50               |
| 37850                               | 38048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 1                     | 23.03                | 24.50               |
| 37901                               | 38099       | QPSK       | 1       | 49        | 50      | 0         | 2             | 1                     | 23.11                | 24.50               |
| 38150                               | 37952       | QPSK       | 50      | 0         | 1       | 49        | 2             | 1                     | 23.01                | 24.50               |

| Ant 1 Down Power                    |             |            | DSI3    |           |         |           |               |                       |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| CA_38C                              |             |            |         |           |         |           |               |                       |                      |                     |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 37850                               | 38048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 17.69                | 19.50               |
| 37901                               | 38099       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 17.78                | 19.50               |
| 38150                               | 37952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 17.76                | 19.50               |
| 37850                               | 38048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 17.69                | 19.50               |
| 37901                               | 38099       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 17.67                | 19.50               |
| 38150                               | 37952       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0                     | 17.58                | 19.50               |

| Ant 2 Down Power                    |             |            | DS11    |           |         |           |               |                       |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| CA_38C                              |             |            |         |           |         |           |               |                       |                      |                     |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 37850                               | 38048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 20.82                | 22.50               |
| 37901                               | 38099       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 20.84                | 22.50               |
| 38150                               | 37952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 20.90                | 22.50               |
| 37850                               | 38048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 20.85                | 22.50               |
| 37901                               | 38099       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 20.63                | 22.50               |
| 38150                               | 37952       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0                     | 20.62                | 22.50               |

| Ant 2 Down Power                    |             |            | DS14    |           |         |           |               |                       |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| CA_38C                              |             |            |         |           |         |           |               |                       |                      |                     |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 37850                               | 38048       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 19.80                | 21.50               |
| 37901                               | 38099       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 19.98                | 21.50               |
| 38150                               | 37952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.67                | 21.50               |
| 37850                               | 38048       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 19.71                | 21.50               |
| 37901                               | 38099       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 19.95                | 21.50               |
| 38150                               | 37952       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0                     | 19.78                | 21.50               |

| Ant 1 Full Power                    |             | DSI1&2     |         |           |         |           |               |                       |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| CA_41C                              |             |            |         |           |         |           |               |                       |                      |                     |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                               | 39948       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 23.57                | 25.50               |
| 40185                               | 40383       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 23.48                | 25.50               |
| 40620                               | 40818       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 23.80                | 25.50               |
| 41055                               | 41253       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 23.62                | 25.50               |
| 41490                               | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.52                | 25.50               |
| 39750                               | 39948       | QPSK       | 1       | 49        | 50      | 0         | 2             | 1                     | 22.56                | 24.50               |
| 40185                               | 40383       | QPSK       | 1       | 49        | 50      | 0         | 2             | 1                     | 22.62                | 24.50               |
| 40620                               | 40818       | QPSK       | 1       | 49        | 50      | 0         | 2             | 1                     | 22.87                | 24.50               |
| 41055                               | 41253       | QPSK       | 1       | 49        | 50      | 0         | 2             | 1                     | 22.73                | 24.50               |
| 41490                               | 41292       | QPSK       | 50      | 0         | 1       | 49        | 2             | 1                     | 22.65                | 24.50               |

| Ant 2 Full Power                    |             | DSI2       |         |           |         |           |               |                       |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| CA_41C                              |             |            |         |           |         |           |               |                       |                      |                     |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                               | 39948       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 24.25                | 25.50               |
| 40185                               | 40383       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 24.16                | 25.50               |
| 40620                               | 40818       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 24.19                | 25.50               |
| 41055                               | 41253       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 24.20                | 25.50               |
| 41490                               | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.17                | 25.50               |
| 39750                               | 39948       | QPSK       | 1       | 49        | 50      | 0         | 2             | 1                     | 23.06                | 24.50               |
| 40185                               | 40383       | QPSK       | 1       | 49        | 50      | 0         | 2             | 1                     | 22.86                | 24.50               |
| 40620                               | 40818       | QPSK       | 1       | 49        | 50      | 0         | 2             | 1                     | 23.21                | 24.50               |
| 41055                               | 41253       | QPSK       | 1       | 49        | 50      | 0         | 2             | 1                     | 23.06                | 24.50               |
| 41490                               | 41292       | QPSK       | 50      | 0         | 1       | 49        | 2             | 1                     | 23.11                | 24.50               |

| Ant 1 Down Power                    |             | DSI3       |         |           |         |           |               |                       |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| CA_41C                              |             |            |         |           |         |           |               |                       |                      |                     |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                               | 39948       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 17.52                | 19.50               |
| 40185                               | 40383       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 17.53                | 19.50               |
| 40620                               | 40818       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 17.75                | 19.50               |
| 41055                               | 41253       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 17.55                | 19.50               |
| 41490                               | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 17.58                | 19.50               |
| 39750                               | 39948       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 17.51                | 19.50               |
| 40185                               | 40383       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 17.59                | 19.50               |
| 40620                               | 40818       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 17.61                | 19.50               |
| 41055                               | 41253       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 17.58                | 19.50               |
| 41490                               | 41292       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0                     | 17.51                | 19.50               |

| Ant 2 Down Power                    |             |            | DSI1    |           |         |           |               |                       |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| CA_41C                              |             |            |         |           |         |           |               |                       |                      |                     |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                               | 39948       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 20.71                | 22.00               |
| 40185                               | 40383       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 20.67                | 22.00               |
| 40620                               | 40818       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 20.70                | 22.00               |
| 41055                               | 41253       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 20.76                | 22.00               |
| 41490                               | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 20.78                | 22.00               |
| 39750                               | 39948       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 20.73                | 22.00               |
| 40185                               | 40383       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 20.61                | 22.00               |
| 40620                               | 40818       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 20.73                | 22.00               |
| 41055                               | 41253       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 20.80                | 22.00               |
| 41490                               | 41292       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0                     | 20.79                | 22.00               |

| Ant 2 Down Power                    |             | DSI4       |         |           |         |           |               |                       |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| CA_41C                              |             |            |         |           |         |           |               |                       |                      |                     |
| Combination 20MHz+20MHz (1RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                               | 39948       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 20.19                | 21.50               |
| 40185                               | 40383       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 20.03                | 21.50               |
| 40620                               | 40818       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 20.32                | 21.50               |
| 41055                               | 41253       | QPSK       | 1       | 99        | 1       | 0         | 2             | 0                     | 20.18                | 21.50               |
| 41490                               | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 20.16                | 21.50               |
| 39750                               | 39948       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 19.91                | 21.50               |
| 40185                               | 40383       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 19.95                | 21.50               |
| 40620                               | 40818       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 20.21                | 21.50               |
| 41055                               | 41253       | QPSK       | 1       | 49        | 50      | 0         | 2             | 0                     | 19.91                | 21.50               |
| 41490                               | 41292       | QPSK       | 50      | 0         | 1       | 49        | 2             | 0                     | 20.17                | 21.50               |

## 2CA DL Power

| Configure  | PCC     |     |       |        |         |      | SCC |        |         |       | Power  |         |                    |                    |
|------------|---------|-----|-------|--------|---------|------|-----|--------|---------|-------|--------|---------|--------------------|--------------------|
|            | LTE     | Ant | BW    | UL     | UL      | Mod. | UL# | UL     | LTE     | BW    | DL     | DL      | With CA            | Without CA         |
|            | Band    |     | (MHz) | Freq.  | Channel |      | RB  | Offset | Band    | (MHz) | Freq.  | Channel | Tx. Power<br>(dBm) | Tx. Power<br>(dBm) |
|            |         |     |       | (MHz)  |         |      |     |        |         |       |        |         |                    |                    |
| CA_2C      | Band 2  | 1   | 20M   | 1880   | 18900   | QPSK | 1   | 0      | Band 2  | 20M   | 1979.8 | 1098    | 23.99              | 24.18              |
|            | Band 2  | 2   | 20M   | 1880   | 18900   | QPSK | 1   | 0      | Band 2  | 20M   | 1979.8 | 1098    | 24.13              | 24.32              |
|            | Band 2  | 1   | 20M   | 1880   | 18900   | QPSK | 1   | 0      | Band 4  | 20M   | 2132.5 | 2175    | 24.05              | 24.18              |
| CA_2A-4A   | Band 2  | 2   | 20M   | 1880   | 18900   | QPSK | 1   | 0      | Band 4  | 20M   | 2132.5 | 2175    | 24.16              | 24.18              |
|            | Band 4  | 1   | 20M   | 1732.5 | 20175   | QPSK | 1   | 0      | Band 2  | 20M   | 1960   | 900     | 23.99              | 24.16              |
|            | Band 4  | 2   | 20M   | 1732.5 | 20175   | QPSK | 1   | 0      | Band 2  | 20M   | 1960   | 900     | 24.19              | 24.35              |
| CA_2A-5A   | Band 2  | 1   | 20M   | 1880   | 18900   | QPSK | 1   | 0      | Band 5  | 10M   | 881.5  | 2525    | 24.00              | 24.18              |
|            | Band 2  | 2   | 20M   | 1880   | 18900   | QPSK | 1   | 0      | Band 5  | 10M   | 881.5  | 2525    | 24.15              | 24.32              |
|            | Band 5  | 1   | 10M   | 836.5  | 20525   | QPSK | 1   | 0      | Band 2  | 20M   | 1960   | 900     | 24.12              | 24.24              |
| CA_2A-7A   | Band 5  | 2   | 10M   | 836.5  | 20525   | QPSK | 1   | 0      | Band 2  | 20M   | 1960   | 900     | 24.31              | 24.46              |
|            | Band 2  | 1   | 20M   | 1880   | 18900   | QPSK | 1   | 0      | Band 7  | 20M   | 2655   | 3100    | 24.03              | 24.18              |
|            | Band 2  | 2   | 20M   | 1880   | 18900   | QPSK | 1   | 0      | Band 7  | 20M   | 2655   | 3100    | 24.21              | 24.32              |
| CA_2A-12A  | Band 7  | 1   | 20M   | 2535   | 21100   | QPSK | 1   | 0      | Band 2  | 20M   | 1960   | 900     | 23.86              | 23.92              |
|            | Band 7  | 2   | 20M   | 2535   | 21100   | QPSK | 1   | 0      | Band 2  | 20M   | 1960   | 900     | 24.25              | 24.36              |
|            | Band 2  | 1   | 20M   | 1880   | 18900   | QPSK | 1   | 0      | Band 12 | 10M   | 737.5  | 5095    | 24.11              | 24.18              |
| CA_2A-66A  | Band 2  | 2   | 20M   | 1880   | 18900   | QPSK | 1   | 0      | Band 12 | 10M   | 737.5  | 5095    | 24.21              | 24.32              |
|            | Band 12 | 1   | 10M   | 707.5  | 23095   | QPSK | 1   | 0      | Band 2  | 20M   | 1960   | 900     | 24.19              | 24.27              |
|            | Band 12 | 2   | 10M   | 707.5  | 23095   | QPSK | 1   | 0      | Band 2  | 20M   | 1960   | 900     | 24.33              | 24.53              |
| CA_4A-5A   | Band 2  | 1   | 20M   | 1880   | 18900   | QPSK | 1   | 0      | Band 66 | 20M   | 2155   | 66886   | 24.12              | 24.18              |
|            | Band 2  | 2   | 20M   | 1880   | 18900   | QPSK | 1   | 0      | Band 66 | 20M   | 2155   | 66886   | 24.38              | 24.32              |
|            | Band 66 | 1   | 20M   | 1745   | 132322  | QPSK | 1   | 0      | Band 2  | 20M   | 1960   | 900     | 24.09              | 24.20              |
| CA_4A-7A   | Band 66 | 2   | 20M   | 1745   | 132322  | QPSK | 1   | 0      | Band 2  | 20M   | 1960   | 900     | 24.27              | 24.37              |
|            | Band 4  | 1   | 20M   | 1732.5 | 20175   | QPSK | 1   | 0      | Band 5  | 10M   | 881.5  | 2525    | 24.03              | 24.16              |
|            | Band 4  | 2   | 20M   | 1732.5 | 20175   | QPSK | 1   | 0      | Band 5  | 10M   | 881.5  | 2525    | 24.21              | 24.35              |
| CA_4A-12A  | Band 5  | 1   | 10M   | 836.5  | 20525   | QPSK | 1   | 0      | Band 4  | 20M   | 2132.5 | 2175    | 24.17              | 24.24              |
|            | Band 5  | 2   | 10M   | 836.5  | 20525   | QPSK | 1   | 0      | Band 4  | 20M   | 2132.5 | 2175    | 24.35              | 24.46              |
|            | Band 4  | 1   | 20M   | 1732.5 | 20175   | QPSK | 1   | 0      | Band 7  | 20M   | 2655   | 3100    | 24.10              | 24.16              |
| CA_4A-17A  | Band 4  | 2   | 20M   | 1732.5 | 20175   | QPSK | 1   | 0      | Band 7  | 20M   | 2655   | 3100    | 24.27              | 24.35              |
|            | Band 7  | 1   | 20M   | 2535   | 21100   | QPSK | 1   | 0      | Band 7  | 20M   | 2655   | 3100    | 23.74              | 23.92              |
|            | Band 7  | 2   | 20M   | 2535   | 21100   | QPSK | 1   | 0      | Band 4  | 20M   | 2132.5 | 2175    | 24.19              | 24.36              |
| CA_5A-7A   | Band 4  | 1   | 20M   | 1732.5 | 20175   | QPSK | 1   | 0      | Band 12 | 10M   | 737.5  | 5095    | 24.07              | 24.16              |
|            | Band 4  | 2   | 20M   | 1732.5 | 20175   | QPSK | 1   | 0      | Band 12 | 10M   | 737.5  | 5095    | 24.18              | 24.35              |
|            | Band 12 | 1   | 10M   | 707.5  | 23095   | QPSK | 1   | 0      | Band 4  | 20M   | 2132.5 | 2175    | 24.17              | 24.27              |
| CA_5A-66A  | Band 12 | 2   | 10M   | 707.5  | 23095   | QPSK | 1   | 0      | Band 4  | 20M   | 2132.5 | 2175    | 24.38              | 24.53              |
|            | Band 4  | 1   | 10M   | 1732.5 | 20175   | QPSK | 1   | 0      | Band 17 | 10M   | 740    | 5790    | 24.11              | 24.16              |
|            | Band 4  | 2   | 10M   | 1732.5 | 20175   | QPSK | 1   | 0      | Band 17 | 10M   | 740    | 5790    | 24.19              | 24.35              |
| CA_5A-41A  | Band 17 | 1   | 10M   | 710    | 23790   | QPSK | 1   | 0      | Band 4  | 10M   | 2132.5 | 2175    | 24.12              | 24.24              |
|            | Band 17 | 2   | 10M   | 710    | 23790   | QPSK | 1   | 0      | Band 4  | 10M   | 2132.5 | 2175    | 24.19              | 24.43              |
|            | Band 5  | 1   | 10M   | 836.5  | 20525   | QPSK | 1   | 0      | Band 7  | 20M   | 2655   | 3100    | 24.13              | 24.24              |
| CA_7A-7A   | Band 5  | 1   | 10M   | 836.5  | 20525   | QPSK | 1   | 0      | Band 7  | 20M   | 2655   | 3100    | 24.27              | 24.46              |
|            | Band 7  | 1   | 20M   | 2535   | 21100   | QPSK | 1   | 0      | Band 5  | 10M   | 881.5  | 2525    | 23.77              | 23.92              |
|            | Band 7  | 2   | 20M   | 2535   | 21100   | QPSK | 1   | 0      | Band 5  | 10M   | 881.5  | 2525    | 24.19              | 24.36              |
| CA_7C      | Band 5  | 1   | 10M   | 836.5  | 20525   | QPSK | 1   | 0      | Band 66 | 20M   | 2155   | 66886   | 24.16              | 24.24              |
|            | Band 5  | 1   | 10M   | 836.5  | 20525   | QPSK | 1   | 0      | Band 66 | 20M   | 2155   | 66886   | 24.37              | 24.46              |
|            | Band 66 | 1   | 20M   | 1745   | 132322  | QPSK | 1   | 0      | Band 5  | 10M   | 881.5  | 2525    | 24.07              | 24.20              |
| CA_7A-66A  | Band 66 | 2   | 20M   | 1745   | 132322  | QPSK | 1   | 0      | Band 5  | 10M   | 881.5  | 2525    | 24.26              | 24.37              |
|            | Band 5  | 1   | 10M   | 836.5  | 20525   | QPSK | 1   | 0      | Band 41 | 20M   | 2598   | 40670   | 24.17              | 24.24              |
|            | Band 5  | 1   | 10M   | 836.5  | 20525   | QPSK | 1   | 0      | Band 41 | 20M   | 2598   | 40670   | 24.35              | 24.46              |
| CA_3A-38A  | Band 41 | 1   | 20M   | 2598   | 40670   | QPSK | 1   | 0      | Band 5  | 10M   | 881.5  | 2525    | 23.79              | 23.91              |
|            | Band 41 | 2   | 20M   | 2598   | 40670   | QPSK | 1   | 0      | Band 5  | 10M   | 881.5  | 2525    | 24.21              | 24.34              |
|            | Band 7  | 1   | 20M   | 2535   | 21100   | QPSK | 1   | 0      | Band 7  | 5M    | 2687.5 | 3425    | 23.73              | 23.92              |
| CA_12A-66A | Band 7  | 2   | 20M   | 2535   | 21100   | QPSK | 1   | 0      | Band 7  | 5M    | 2687.5 | 3425    | 24.31              | 24.36              |
|            | Band 7  | 1   | 20M   | 2535   | 21100   | QPSK | 1   | 0      | Band 7  | 20M   | 2674.8 | 3298    | 23.79              | 23.92              |
|            | Band 7  | 2   | 20M   | 2535   | 21100   | QPSK | 1   | 0      | Band 7  | 20M   | 2674.8 | 3298    | 24.20              | 24.36              |
| CA_38C     | Band 7  | 1   | 20M   | 2535   | 21100   | QPSK | 1   | 0      | Band 66 | 20M   | 2155   | 66886   | 23.73              | 23.92              |
|            | Band 7  | 2   | 20M   | 2535   | 21100   | QPSK | 1   | 0      | Band 66 | 20M   | 2155   | 66886   | 24.26              | 24.36              |
|            | Band 66 | 1   | 20M   | 1745   | 132322  | QPSK | 1   | 0      | Band 7  | 20M   | 2674.8 | 3298    | 24.14              | 24.20              |
| CA_38A-38A | Band 66 | 2   | 20M   | 1745   | 132322  | QPSK | 1   | 0      | Band 7  | 20M   | 2674.8 | 3298    | 24.20              | 24.37              |
|            | Band 12 | 1   | 10M   | 707.5  | 23095   | QPSK | 1   | 0      | Band 66 | 20M   | 2155   | 66886   | 24.16              | 24.27              |
|            | Band 12 | 2   | 10M   | 707.5  | 23095   | QPSK | 1   | 0      | Band 66 | 20M   | 2155   | 66886   | 24.45              | 24.53              |
| CA_41C     | Band 66 | 1   | 20M   | 1745   | 132322  | QPSK | 1   | 0      | Band 12 | 10M   | 737.5  | 5095    | 24.12              | 24.20              |
|            | Band 66 | 2   | 20M   | 1745   | 132322  | QPSK | 1   | 0      | Band 12 | 10M   | 737.5  | 5095    | 24.22              | 24.37              |
|            | Band 38 | 1   | 20M   | 2595   | 38000   | QPSK | 1   | 0      | Band 38 | 20M   | 2617.5 | 38225   | 23.74              | 23.92              |
| CA_41A-41A | Band 38 | 2   | 20M   | 2595   | 38000   | QPSK | 1   | 0      | Band 38 | 20M   | 2617.5 | 38225   | 24.18              | 24.27              |
|            | Band 38 | 1   | 20M   | 2595   | 38000   | QPSK | 1   | 0      | Band 38 | 5M    | 2617.5 | 38225   | 23.73              | 23.92              |
|            | Band 38 | 2   | 20M   | 2595   | 38000   | QPSK | 1   | 0      | Band 38 | 5M    | 2617.5 | 38225   | 24.23              | 24.27              |
| CA_66A-66A | Band 38 | 2   | 20M   | 2595   | 38000   | QPSK | 1   | 0      | Band 38 | 5M    | 2617.5 | 38225   | 21.69              | 21.82              |
|            | Band 41 | 1   | 20M   | 2593   | 40620   | QPSK | 1   | 0      | Band 41 | 20M   | 2612.8 | 40818   | 23.83              | 23.91              |
|            | Band 41 | 2   | 20M   | 2593   | 40620   | QPSK | 1   | 0      | Band 41 | 20M   | 2612.8 | 40818   | 24.23              | 24.34              |
| CA_66B     | Band 41 | 1   | 20M   | 2593   | 40620   | QPSK | 1   | 0      | Band 41 | 5M    | 2687.5 | 41565   | 23.84              | 23.91              |
|            | Band 41 | 2   | 20M   | 2593   | 40620   | QPSK | 1   | 0      | Band 41 | 5M    | 2687.5 | 41565   | 24.29              | 24.34              |
|            | Band 66 | 1   | 20M   | 1745   | 132322  | QPSK | 1   | 0      | Band 66 | 5M    | 2197.5 | 67311   | 24.04              | 24.20              |
| CA_66C     | Band 66 | 2   | 20M   | 1745   | 132322  | QPSK | 1   | 0      | Band 66 | 5M    | 2197.5 | 67311   | 24.30              | 24.37              |
|            | Band 66 | 1   | 15M   | 1745   | 132322  | QPSK | 1   | 0      | Band 66 | 5M    | 2164.3 | 66979   | 23.93              | 24.02              |
|            | Band 66 | 2   | 15M   | 1745   | 132322  | QPSK | 1   | 0      | Band 66 | 5M    | 2164.3 | 66979   | 24.10              | 24.24              |
| CA_66C     | Band 66 | 1   | 20M   | 1745   | 132322  | QPSK | 1   | 0      | Band 66 | 20M   | 2174.8 | 67084   | 24.08              | 24.20              |
|            | Band 66 | 2   | 20M   | 1745   | 132322  | QPSK | 1   | 0      | Band 66 | 20M   | 2174.8 | 67084   | 24.30              | 24.37              |

## Conducted Power for BT/WLAN

| 2.4GHz WLAN |                   |         |                 |                     | Ant 3         |              |
|-------------|-------------------|---------|-----------------|---------------------|---------------|--------------|
|             | Mode              | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 2.4GHz WLAN | 802.11b 1Mbps     | 1       | 2412            | 17.14               | 18.50         | 100.00       |
|             |                   | 6       | 2437            | 17.09               | 18.50         |              |
|             |                   | 11      | 2462            | 17.12               | 18.50         |              |
|             | 802.11g 6Mbps     | 1       | 2412            | 14.57               | 16.00         | 97.46        |
|             |                   | 6       | 2437            | 14.70               | 16.00         |              |
|             |                   | 11      | 2462            | 14.62               | 16.00         |              |
|             | 802.11n-HT20 MCS0 | 1       | 2412            | 13.06               | 14.50         | 97.28        |
|             |                   | 6       | 2437            | 13.03               | 14.50         |              |
|             |                   | 11      | 2462            | 13.05               | 14.50         |              |

| 5.2GHz WLAN |                     |         |                 |                     | Ant 3         |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.2GHz WLAN | 802.11a 6Mbps       | 36      | 5180            | 13.06               | 14.50         | 97.46        |
|             |                     | 40      | 5200            | 13.58               | 15.00         |              |
|             |                     | 44      | 5220            | 13.52               | 15.00         |              |
|             |                     | 48      | 5240            | 13.64               | 15.00         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 13.03               | 14.50         | 97.28        |
|             |                     | 40      | 5200            | 13.37               | 15.00         |              |
|             |                     | 44      | 5220            | 13.46               | 15.00         |              |
|             |                     | 48      | 5240            | 13.43               | 15.00         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 13.13               | 14.50         | 94.70        |
|             |                     | 46      | 5230            | 13.29               | 15.00         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 12.95               | 14.50         | 97.30        |
|             |                     | 40      | 5200            | 13.36               | 15.00         |              |
|             |                     | 44      | 5220            | 13.30               | 15.00         |              |
|             |                     | 48      | 5240            | 13.14               | 15.00         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 13.03               | 14.50         | 94.94        |
|             |                     | 46      | 5230            | 13.25               | 15.00         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 13.47               | 15.00         | 90.24        |

| 5.3GHz WLAN |                     |         |                 |                     | Ant 3         |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.3GHz WLAN | 802.11a 6Mbps       | 52      | 5280            | 13.50               | 15.00         | 97.46        |
|             |                     | 56      | 5280            | 13.49               | 15.00         |              |
|             |                     | 60      | 5300            | 13.44               | 15.00         |              |
|             |                     | 64      | 5320            | 13.25               | 15.00         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5280            | 13.31               | 15.00         | 97.28        |
|             |                     | 56      | 5280            | 13.29               | 15.00         |              |
|             |                     | 60      | 5300            | 13.35               | 15.00         |              |
|             |                     | 64      | 5320            | 13.25               | 15.00         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 13.17               | 15.00         | 94.70        |
|             |                     | 62      | 5310            | 13.36               | 15.00         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5280            | 13.19               | 15.00         | 97.30        |
|             |                     | 56      | 5280            | 13.27               | 15.00         |              |
|             |                     | 60      | 5300            | 13.09               | 15.00         |              |
|             |                     | 64      | 5320            | 13.06               | 15.00         |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270            | 13.13               | 15.00         | 94.94        |
|             |                     | 62      | 5310            | 13.18               | 15.00         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 13.40               | 15.00         | 90.24        |

| 5.5GHz WLAN |                     |         |                 |                     | Ant 3         |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.5GHz WLAN | 802.11a 6Mbps       | 100     | 5500            | 13.13               | 14.50         | 97.46        |
|             |                     | 116     | 5580            | 12.88               | 14.50         |              |
|             |                     | 124     | 5620            | 13.19               | 14.50         |              |
|             |                     | 132     | 5660            | 12.97               | 14.50         |              |
|             |                     | 140     | 5700            | 13.09               | 14.50         |              |
|             |                     | 100     | 5500            | 13.21               | 14.50         |              |
|             | 802.11n-HT20 MCS0   | 116     | 5580            | 12.90               | 14.50         | 97.28        |
|             |                     | 124     | 5620            | 12.96               | 14.50         |              |
|             |                     | 132     | 5660            | 12.85               | 14.50         |              |
|             |                     | 140     | 5700            | 13.00               | 14.50         |              |
|             |                     | 102     | 5510            | 13.02               | 14.50         |              |
|             | 802.11n-HT40 MCS0   | 110     | 5550            | 12.83               | 14.50         | 94.70        |
|             |                     | 126     | 5630            | 12.81               | 14.50         |              |
|             |                     | 134     | 5670            | 12.69               | 14.50         |              |
|             | 802.11ac-VHT20 MCS0 | 100     | 5500            | 12.74               | 14.50         | 97.30        |
|             |                     | 116     | 5580            | 12.77               | 14.50         |              |
|             |                     | 124     | 5620            | 12.67               | 14.50         |              |
|             |                     | 132     | 5660            | 12.53               | 14.00         |              |
|             |                     | 140     | 5700            | 12.57               | 14.00         |              |
|             | 802.11ac-VHT40 MCS0 | 102     | 5510            | 13.01               | 14.50         | 94.94        |
|             |                     | 110     | 5550            | 12.84               | 14.50         |              |
|             |                     | 126     | 5630            | 12.81               | 14.50         |              |
|             |                     | 134     | 5670            | 12.74               | 14.50         |              |
|             | 802.11ac-VHT80 MCS0 | 106     | 5530            | 12.99               | 14.50         | 90.24        |
|             |                     | 122     | 5610            | 12.71               | 14.50         |              |

| 5.8GHz WLAN |                     |         |                 |                     | Ant 3         |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.8GHz WLAN | 802.11a 6Mbps       | 149     | 5745            | 13.12               | 14.50         | 97.46        |
|             |                     | 157     | 5785            | 13.15               | 14.50         |              |
|             |                     | 165     | 5825            | 13.00               | 14.50         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 12.98               | 14.50         | 97.28        |
|             |                     | 157     | 5785            | 13.15               | 14.50         |              |
|             |                     | 165     | 5825            | 13.06               | 14.50         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 13.16               | 14.50         | 94.70        |
|             |                     | 159     | 5795            | 12.94               | 14.50         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 12.67               | 14.50         | 97.30        |
|             |                     | 157     | 5785            | 13.03               | 14.50         |              |
|             |                     | 165     | 5825            | 12.60               | 14.50         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 12.71               | 14.50         | 94.94        |
|             |                     | 159     | 5795            | 12.81               | 14.50         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 13.00               | 14.50         | 90.24        |



#### BT BR/EDR

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |       |
|---------------|---------|-----------------|---------------------|-------|-------|
|               |         |                 | 1Mbps               | 2Mbps | 3Mbps |
| BR / EDR      | CH 00   | 2402            | 8.08                | 6.26  | 5.82  |
|               | CH 39   | 2441            | 8.69                | 6.00  | 5.96  |
|               | CH 78   | 2480            | 8.01                | 5.76  | 5.55  |
| Tune-up Limit |         |                 | 9.5                 | 7     | 7     |

#### BLE\_1M

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |
|---------------|---------|-----------------|---------------------|
| LE            | CH 00   | 2402            | -4.50               |
|               | CH 19   | 2440            | -2.91               |
|               | CH 39   | 2480            | -3.98               |
| Tune-up Limit |         |                 | 0                   |

#### BLE\_2M

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |
|---------------|---------|-----------------|---------------------|
| LE            | CH 00   | 2402            | -4.51               |
|               | CH 19   | 2440            | -3.11               |
|               | CH 39   | 2480            | -3.73               |
| Tune-up Limit |         |                 | 0.00                |